Annual Return of Statistics relating to Forest Administration in British India for the year 1933-34

(With which is incorporated the Quinquennial Review, ending 31st March 1934)



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Corrigenda.

Annual Return of Statistics relating to Forest Administration in British India for the year 1932-33, Statement XII, page 16, columns 2, 3 and 5.

Against Assam read 652; 2,259 and 2,911 for 806; 13,899 and 14,705, respectively.

Against Total 1932-33 read 138,868; 21,761 and 163,154 for 139,022; 33,401 and 174,948, respectively.

Errata to the Annual Return of Statistics relating to Forest Administration in British India for the year 1933-34.

Page 35-Statement XIII-

In column 13 against Coorg for the figure 8 read ·8 and against the totals for 1930-31 for the figures 1961 read 196.

In column 6 against N.-W. F. Province for the figure 22.000 read 22,000.

Page 33-Statement XI-

In column 22 under totals against 1929-30 for the figures 14,080,484 read 14,083,895.

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QUINQUENNIAL REVIEW.

Constitution of the Forests.

The following review of Forest Administration in British India during the five years ending 31st March 1934 is published for general information.

Forest Area.—At the close of the quinquennium under review the forest area in British India, including the Shan States, amounted to 282,664 square miles, of which 106,079 square miles are reserved, 7,003 square miles protected, and 169,582 square miles unclassed State forests, the whole representing 25.7 per cent. of the total area of British India (with the Shan States) or taking into account only reserved and protected forests 10.3 per cent.

The net increase over the previous quinquennium is 32,842 square miles which is mainly due to the transfer of a large area of unclassed forest in the Federated Shan States to the Forest department.

Other important changes are:-

Increase.—1,041 square miles in Assam due to addition of Sadiya Frontier tract and recalculation of areas; 105 square miles in the North-West Frontier Province by transfer from the Civil department; 104 square miles in Bengal, 397 square miles in Burma and 337 square miles in Coorg due to bringing certain areas under the control of the Forest department.

Decrease.—148 square miles in the Punjab disforested for colonisation purposes; 211 square miles in the Central Provinces and 61 square miles in Bihar and Orissa were given out mainly for cultivation. A net decrease of 2,984 square miles in Madras was due to the transfer of areas to be constituted as Ryots' forests under the control of the Revenue department.

2. Forest Surveys.—The area surveyed by the Survey of India amounted to 4791'8 square miles, and 798 sheets were published. The cost debited to the Forest department on account of mapping and publishing and the cost of special surveys, etc., amounted to Rs. 5,11,818 as compared with a sum of Rs. 11,47,660 during the previous period.

Organisation.

3. Administration and Control.—The appointment of Inspector General of Forests and President, Forest Research Institute and College, was held by Sir Alexander Rodger till the 13th August 1930 when he proceeded on leave proparatory to retirement. He was succeeded by Mr. A. D. Blascheck who held the post till the 9th November 1933 before proceeding on leave preparatory to retirement. Mr. C. G. Trevor took over charge from Mr. A. D. Blascheck on the afternoon of the 9th November 1933.

During the period under review the Inspector General of Forests made tours of inspection in Assam, Bengal, Burma, Bihar and Orissa, Coorg, Madras, and the Andamans.

A post of a Conservator of Forests was created in 1930 in the North-West Frontier Province and forest operations were extended to the whole province including the Agencies. In April 1932 when the North-West Frontier Province was declared to be a Governor's province 'Forests' became a "Transferred Subject" and were placed under the control of a Minister.

During the whole of the period under review "Foresta" were a transferred subject in the provinces of Burma and Bombay.

In consequence of the severe trade depression and the slump in all commodities including timber which has swept over the whole, world, all possible reduction in expenditure had to receive the carnest consideration of the department. In addition to the emergency cut in the salaries of the stuff considerable reduction was made in the cadre. In Bengal one post of Conservator was held in abeyance. Three takent posts in the Indian Forest Service in the United Provinces, one post in Conservator and eight posts in the Indian Forest Service.

, į

in the Punjab have been abolished. The Indian Forest Service cadre of Bihar and Olissa has been reduced from seventeen to fifteen: the actual strength being 16. In Assam the cadre of the Indian Forest Service has been reduced from seventeen to sixteen. One of the two posts of Conservator and the posts of Silviculturist and Working Plan Officer were kept in abeyance. The Indian Forest Service cadre of the Central Provinces has been reduced from thirty-two to twenty-nine.

In view of the impending constitutional changes the Madras Government have decided to have a unified forest service combining the Indian Forest Service and Madras Forest Service with a strength of eighty-four posts as against one hundred at the commencement of the quinquennium. In Burma Conservators' circles were reduced from nine to six and the combined Indian Forest Service and Burma Forest Service Class I cadre reduced from one hundred and nineteen to eighty-four. In Bombay the gazetted services of the Forest department were provincialised with effect from 1st October 1929. The service is designated the Bombay Forest Service and has been divided into classes I and II. There are at present 49 officers in the cadre (as against the original strength of 70), i.e., twenty-three Indian Forest Service, eight Class I officers and eighteen Class II officers.

Recruitment and Training.

4(a). Indian Forest Service.—Pending a discussion on the recommendation of the Services Sub-Committee of the Round Table Conference, 1930, recruitment to the Indian Forest Service both direct and by promotion was suspended in 1931.

The Indian Forest Service College which was opened in 1926 trained twenty-eight students in all as follows:—

1926-28	•		•	•	•		•	•	•	II s	tudents.
1927-29	•	•	•			•		•	•	G	"
1928-30	•			•	•	•	•	•		5	39
1929-31	•	•	•	•				•	•	4	"
1930-32		•	•	•	•	•	•	•		2	3)

The College had to be closed down in November 1932 as the number of students gradually decreased and sufficient support for its continuance was not forthcoming from the Provinces.

In their report the Joint Parliamentary Committee have recommended the maintenance of a common training centre for Forest officers and if the Indian Provinces unanimously demand such a training the re-opening of the College may be considered.

The recruitment made to the Indian Forest Service in provinces other than Bombay and Burma during the 5 years period under review compares as follows with the preceding quinquennium ending 31st March 1929:—

											During the 5-year period					
										ļ	1924 25 to 1928-29.	1929-30 to 1933 34				
Europeans	•	, -	•		•	•		•	•	•	5	5				
Indians	•	7	•	•	•	•	•	• •	•	•	32	16				

It was in 1924 that the ratio of recruitment of Indians and Europeans to the Indian Forest Service was fixed at 75 per cent. and 25 per cent. respectively. The number of Indians and Europeans who were appointed to Indian Forest Service after 1924 in the provinces other than Bombay and Burma and are still in service is Indians 47 and Europeans 10. This shows a deficiency of 4 in the European quota and is due partly to the fact that recruitment to the Indian Forest Service was suspended in 1931 and partly to insualties among the appointed staff.

The proportion of promoted officers to those appointed direct during the preceding quinquennium was 24.4 per cent., whereas the proportion in the quinquennium under review has been 20.8 per cent. of the total recruitment.

The total number of officers in the Indian Forest Service in March 1934 was as follows:—

- (1) Europeans
 (2) Indians
 (3) Burmese
- (b) Provincial Forest Service.—Except in Assam and Burma there has been no direct recruitment to the Provincial Forest Service during the period but each province made its own arrangements for recruiting the Provincial Forest Service by promoting suitable officers from the subordinate service.
- (c) Training of Rangers.—As a temporary measure the Forest College at Dehra Dun for the training of forest rangers was closed down in October 1933 as sufficient number of students were not forthcoming. The College, however, has re-opened on the 1st of April 1935 with 27 students.

The number of students who obtained certificates during the period were as follows:—

1530	•	•	•		•	•	•	•	•	23
1981										
1932										
1933										

Ranger students for Madras, Bihar and Orissa, the Central Provinces and parts of Southern India continued to be trained at the Forest College at Coimbatore.

5. Forest Engineering Service.—Fifteen officers in 1921 and three in 1922 were appointed to this service. Fourteen posts in the cadre of Burma, the United Provinces, Bihar and Orissa, Assam and Bengal have been abolished. This service is gradually dwindling and there are now only four posts in existence: one each in Bombay and Madras and two in the Punjab, one of the latter will be abolished as soon as the officer holding it is transferred to the Indian Service of Engineers.

Conservation and Improvement.

- 6. Fire Protection.—The area over which special fire protection was attempted shows an increase of 4,520 square miles or 10.7 per cent. in 1933-34 as compared with the figures for 1928-29. The percentage of forest protected during the five years under report was 41.5 per cent. on the average as against 40 per cent. in the previous quanquennium and the percentage of failure to area attempted has varied $c\,g$, 6.5 per cent. in 1931-32 to 4.2 per cent. in 1932-33 and 4.6 per cent. in 1933-34.
- 7. Grazing.—During the year 1933-34 over 12,079,000 animals were provided with grazing in State forests of all classes and out of this 4,707,610 grazed free. The figures for 1928-29 were over 14,170,000 (4,889,000 grazed free) and for 1923-24 they were 13,300,000 (4,800,000 grazed free).

The economic depression is mainly responsible for the decrease in the number of cattle that grazed on payment of fees, except that in Bombay the decrease was partly due to admitting calves under eighteen months free of charge. The excessive number of cattle of poor breed admitted to the forests and consequent overgrazing in thickly populated areas still remains a conspicuous feature in the grazing system of this country with the result that both denudation and the resulting erosion are all too common phenomena of this outer hills of the Himalaya and the hilly regions of the Peninsula. It is a fact far too little known that India has suffered immense losses from this evil during the past century.

8. Afforestation.—The work of afforestation was seriously hampered owing to financial stringency.

In the United Provinces neither the Government nor the Zemindars were able to do much for want of funds. Considerable attention was given to Canal side plantations in co-operation with the Irrigation department.

No afforestation work was done in the Pabbi Hills for want of funds. As a result of the recommendations of the Erosion Committee the Punjab Government appointed a special officer to experiment in Cho training and reclamation work in Hoshiarpur and Ambala districts.

To stabilise shifting sand, some work was done in Madras where Casuarina plantations have been raised along the sea coast in Godaver. Lower and Nellore, and Palmyra plantations have been raised in the Kudıramoliteri forests of Tinnevelly.

9. Plantations.—The expenditure on plantations including tending averaged 9 lakks per annum during the period under review.

The area under plantations in the Punjah rose from 19,894 acres in the previous quinquennium to 30,292 acres in the period under review.

In Assam particular attention has been given to the raising of soft woods used in the manufacture of matches and packing cases.

In the United Provinces artificial regeneration by taungya is becoming increasingly important and large areas are being stocked with more important species after clearfolling.

In the Andamans regeneration of deciduous forests by natural means has replaced the artificial methods of raising plantations.

The Government of India appointed a Committee consisting of the Inspector General of Forests, Chief Conservator of Forests, Bombay, and an expert Forest Officer from the Punjab to inspect the proposed areas for irrigated plantation in Sind. The Committee visited the locality in January 1935 and recommended 6,500 acres for conversion into irrigated plantations.

10. Communications and Buildings.—The expenditure under this head in the year 1928-29 was 37 lakhs and rose to above 75 lakhs in 1920-30, the opening year of the present quinquennium. Owing to the severe trade depression and the need for economy the expenditure under this head gradually fell away to 14 lakhs as work was confined to the barest minimum for the upkeep of roads and the repairs of buildings. All expenditure on new work was strictly limited to what was absolutely necessary for revenue purposes.

Exploitation and Commercial development.

11. Outturn of Forest Produce.—The average annual outturn of timber and fuel from all sources during the 5-year period under review was 322,000,000 cubic feet against an average of 347,800,000 cubic feet in the previous quinquennium. The decrease is due to the trade depression and economic causes. The outturn in the year 1929- 0 was 350,200,000 cubic feet and this fell to 305,900,000 cubic feet in 1931-32 but rose again to 317,300,000 cubic feet in 1933-34 indicating a gradual improvement in the timber trade.

The trade in hamboos also suffered from the depression. The average value on this account was 19 lakhs in the previous quinquennium as compared with the average of 16 lakhs in the period under review. The value, however, was Rs. 18 lakhs and 14 lakhs in the years 1929-30 and 1933-34, the first and the last years of the present quinquennium respectively.

There was also a decrease in the value of grazing and extraction of fodder due to the general depression. The position in 1933-34 showed a definite improvement over the figures for 1931-32 and 1932-33.

The demand for other minor forest products was also poor during the quinquennium, the value being Rs. 33 lakhs in 1933-34 as compared with 60 lakhs in 1929-30. The figures for 1933-34 were, however, an improvement over 1932-33.

12. Exploitation.—In Madras mechanical exploitation of the evergreen forests of the West Coast, the portable saw mills and the seasoning plant established during the previous quinquennium for the fuller utilisation of the timbers hitherto unknown were found unremunerative and had to be closed down. Experience has shown that mechanical exploitation is not to be compared with indigenous methods which rely upon elephant power, floating and carting.

In the Andamans where extraction in the interior of the island with animal power was considered impossible mechanical extraction under the supervision of a logging engineer was sanctioned as a trial. After logging 1 square mile the skidder was found to be unprofitable and its use discontinued.

During the period under review departmental exploitation was considerably restricted and the sale of standing trees to contractors was more generally adopted as the most suitable method of disposing of forest produce.

In Assam the manufacture of tea boxes of plywood was continued by the mills. Considerable quantities of softwoods were exported for the manufacture of matches and packing cases.

In Burma more than one million teak trees were girdled during the 5-year period.

In Bombay the extraction of timber by Fordson skidding outlits was continued. Six saw mills worked during the period; 3 of them were closed for want of work and a new one was erected. All the mills shew good profits.

The Allapilli saw mill in the Central Provinces was reconstructed. The result has been an increase in the outturn of about 15,000 cubic feet per annum.

Agencies for the sale of timber.

13. The only agents with which the Government of India dealt were Messrs. Martin and Co. of Calcutta, who have been working as their agents for the sale of Andamans timber in the Calcutta market since 1st November 1918. On the expiry of the agency contract with the firm on the 31st March 1934 the agreement was renewed for another two years.

The appointment of Timber Adviser to the High Commissioner for India in connection with the trade in the Andamans and other Indian timbers in the London market was created in 1927 for one year and has since been extended from time to time. The present extension expires on the 31st March 1936.

The following figures compare the sale of timber from the Andamans during the present and the previous quinquennia:—

		Loge.	Squares.	Scantlings.	Total.
		Tons.	Tons.	Tons.	Tons.
Present quinquennium		85,660	10,840	39,891	136,391
	•	21,037	16,444	39,279	76,760

The increase under logs was due to purchases by the local match factory; the decrease under squares was chiefly due to the financial depression during which the Indian railways have curtailed purchases. The position of the trade in scantlings was satisfactory except for the prices which were seriously affected by the depression. Considerable competition has developed in the soft wood trade owing to the import of timbers from Japan at very low prices.

Forest Management.

14. Working Plans.—The percentage of the total forest area in British India which is now under working plans has risen from 57 per cent. in 1929-30, the beginning of the quinquennium, to 63.4 per cent. in 1933-34. The area

under working plans in 1928-29, the last year of the previous quinquennium, was 73,000 square miles against 83,000 square miles at the close of the present review. The principal additions were:—Burma 6,000 square miles; Assam 1,300 square miles and Madras 2,600 square miles.

15. Panchayat and Forest Village Systems.—At the end of the present 5-year period under review the total area under Panchayat management in Madias was 3,270 square miles as against 3,400 square miles in March 1929, the decrease being due to the inability of the people to form panchayats. It is as yet premature to say that management by Panchayat is satisfactory.

In Assam the policy of forming village forests was abandoned and those created were cancelled.

In the United Provinces there are now 20,000 acres of Panchayat forests, a considerable portion of which consists of plantations made by the villagers themselves at their own expense. The Kumaun Panchayat forest movement was initiated by the Forest department but is controlled by the Revenue department.

Financial Results.

16. The following statement shows the growth of forests revenue and expenditure during the past 70 years—the figures in all cases being the annual averages of the quinquennial periods:—

Quinquen	ָ [פנח	period			Gross revenue (Average per annum).	Expenditure (Average per annum).	Surplus (Average per annum).	Percentage of aurplus to gross revenue
					Laklız,	Lakhs.	Lakhs.	,
1864-65 to 1868 69					37 1	23 8	13 6	36 4
1869-70 to 1873-71	•				50 3	39 3	170	30 2
1874-75 to 1878 79	•	•		•	60 6	45 8	20 8	31.2
1879-60 to 1883 81	•		•	•	88 2	5G 1	32 1	36 4
1881-85 to 1888-89	•		•	•	1167	74 3	42 4	36 3
1889 90 to 1893-94	•	•	•	•	159 5	8G O	73 5	461
1891-95 to 1898 99		•	•		177 2	98 0	70 2	417
1899 09 to 1903 04		•	•		196 6	1127	63.0	42 7
1904-05 to 1908 09	•	•	•	•	257 0	1110	1160	45 1
1909 10 to 1913-14	•	•	•		290 0	163 7	132 3	417
1914-15 to 1918-19	•	•		•	371 3	211 1	160 0	43 0
1919 20 to 1923 24		•	•		<i>5</i> 51 7	367 1	184 6	33 5
1924-25 to 1028-29	•	•			<i>5</i> 95 4	351-1	2412	40 9
1929-30 to 1933-34	•	•	•	•	441-5	316 1	125 4	28 4

The continued fall in prices has further reduced the surplus, which stands somewhere about the prewar figures. If it is stabilised at this figure in the following quinquennium it will only indicate that we are returning towards more normal conditions.

The revenue of Burma (including Federated Shan States) alone has dropped from 2 crores in 1929-30 to 88 lakks in 1933-34. In addition to the economic depression, this decrease may partly be attributed to the increased use of substitutes in place of hardwoods.

With the fall in revenue, the Forest department had also to curtail expenditure and is effecting all possible measures for economy. The policy of selling standing trees has been resorted to on a large scale and departmental operations restricted to the minimum; cadres have also been reduced considerably in most provinces.

Research.

17. General.—Research work which in the previous 5-year review was reported to be making great progress could not escape the effects of the world wide trade depression and the consequent financial difficulties of the Central and Provincial Governments. The work of the Forest Research Institute had to be curtailed and the staff reduced. In spite of this it has been possible to continue silvicultural research work both at Dehra and in the provinces. In other branches much useful work has been done which is dealt with more fully in the succeeding paragraphs.

A list of the publications issued by the Forest Research Institute during the 5-year period under review is given at the end of this report.

18. Silviculture.—The difficult financial position during most of the 5-year period resulted in a general curtailment of silvicultural work particularly as regards the relatively expensive departmental plantations and tending operations. Research work, however, was vigorously prosecuted in nearly all provinces, and despite the hampering effect of rigid economy, marked progress can be recorded in several directions.

Attention continued to be given to the regeneration both natural and artificial of tropical evergreen forests, valuable results being reported from Bengal, Assam and the Andamans. In Bengal, it has been demonstrated that taungya plantations with such representative species as Dipterocarpus turbinatus (garjan) and Artocarpus chaplasha are a practical proposition provided a soil cover crop is introduced at an early stage: more slowly growing species such as Dichopsis can probably be introduced in mixture, and there are indications that nurse crop of quick growing deciduous trees such as Ginelina may be useful. In the Andamans, excellent natural regeneration of Terminalias and other semi-deciduous species has been obtained by clearing the undergrowth, burning and thorough weeding, whilst in Assam, Terminalia myriocarpa has similarly been regenerated with some aid by sowing. In several places, the method of regenerating these forests by lightening the canopy from below upwards at a rate varying with local conditions, and sometimes with some aid by dibbling seed of desirable species (notably Dipterocarpus spp.) has been further established as capable of giving satisfactory results.

An important outstanding problem appears to have been solved in Madras in the successful restocking of second rotation teak plantations. The difficulties experienced there and elsowhere with pure plantations have directed attention to the need of a much wider knowledge of the technique of raising mixed plantations and a good deal of work in this field has been initiated.

The expansion of co-operative work between the Research Institute and the Provinces and Indian States has been a feature of the quinquentium, three major investigations having been taken up, i.e., the regeneration and management of sal forests (6 Provinces), the influence of seed origin for teak (8 Provinces and States), and bamboo management (5 Provinces). This has been associated with the steady improvement in experimental technique throughout the period.

The effect of thinning treatment on the total volume production and the growth of trees is a matter to which more and more attention is being directed with the rapid exhaustion of the older stock in all accessible forests. Yield tables were made for deodar under four intensities of thinning, representing the results of the first statistical study in this field in India. Research is now being concentrated on the growth statistics of unevenaged crops.

The Silvicultural Conference held in March 1929 provided a programme of research which has taken five yours to deal with and a fourth conference was convened for October 1934. There have been two meetings of the Union of

Forest Research Stations at Stockholm (1929), and Nancy (1932), at both of which India was represented. The Silviculturist made a special tour of Forest Research Institutes in Europe in 1931 to collect the latest information on research methods and found that India was behind them only in the investigation of soil problems.

19. Forest Economy.—This Branch, which deals with such subjects as timber testing, wood technology, seasoning, wood preservation, woodworking, minor forest products, and paper pulp, has several important developments to record since the last report in 1928.

The Timber Testing Section has now tested 148 species of Indian woods under its ordinary strength test programme, and 87 species under the special programme for constructional woods. This work is of the utmost value to engineers and timber users generally throughout India, and has resulted in several instances in Indian woods being given preference over imported woods. One of the chief reasons why imported woods were previously preferred was the lack of information on the strength of Indian timbers. This drawback no longer exists and scientific data on practically all the commercial Indian timbers are now available for those requiring them.

Wood Technology has made great progress during the past few years, and timber users throughout India are recognising more and more the importance of obtaining scientific information about the woods they are handling. The number of enquiries received asking for advice on the suitability of timbers for various purposes, the cause of unusual defects such as extreme hardness, softness or weakness, and requests for fungus examination, now average over 300 per annum, while the number of requests for identification of wood samples have increased from about 60 in 1928 to 400 in 1934. An important little booklet entitled "The Identification of Important Indian Sleeper Woods" was published in 1932 and has proved of considerable value to railway engineers and others dealing in sleeper woods.

The Seasoning Section distinguished itself by developing a new technique for kiln seasoning. This new process has halved the time formerly taken for kiln drying and only costs about a third as much as former processes, while the timber comes out in better condition than it did formerly. There are now several commercial kiln seasoning plants in India and with this cheaper and better technique it is possible that there will be further additions to the number during the next few years. Air-reasoning also has made advances, and an air-seasoning Manual was published in 1934. This Manual is not only a general treatise on air-drying but also deals specifically with the air-seasoning of 120 Indian woods.

The Wood Preservation Section has done some exceedingly useful work in having evolved a method of fixing arsenic and copper in wood, thereby giving it a very much prolonged life against the ravages of termites, fungi and wood borers. The new process, known as the Ascu process, is a development of the Falkamesam process which aimed at fixing arsenic only in the wood. As copper is very toxic to wood destroying agencies, the combination is doubly effective. A new technique for treating heartwood and sapwood railway sleepers together at the same time has also reacted to the benefit of the Forest department and the Railways, by allowing sapwood to be included in sleeper specifications and at the same time cheapening the cost of treatment. Mr. Kamesam, who developed this new technique, was awarded the Viceroy's Prize of 1933 for his treatise on the subject.

In the Woodworking Section considerable advance has been made in the study of Indian woods for veneers and plywood, and a preliminary treatise on the subject was published in 1934. Several Indian woods have been found suitable for the manufacture of plywood tea boxes. The study of glues for Indian conditions has also taken up a considerable amount of time, and as a result of this work the Civil Aviation department has issued instructions to its ground engineers that no licence will be issued unless the applicant has passed the gluing test supervised by the Forest Research Institute. It is gratifying to note that the standard of gluing has, as a result of this, improved considerably

during the past year or two. This has the effect of making the repair work of aircraft more dependable and flying safer.

The Minor Forest Products Section has been occupied chiefly with the development of a portable charcoal kiln suitable for Indian conditions and with the making of briquettes from charcoal dust combined with a suitable binder. An entirely new design of charcoal kiln has been evolved and is now available for those interested in this subject. One of the chief assets of this new kiln is that it can be used without water, a most important matter in those districts where charcoal burning is restricted to 3 or 4 months in a year on account of a lack of water. An intensive study of the more important forest drug producing plants has also been inaugurated, and should lead to an improvement in the cultivation, yield, and quality of these important products.

The Paper Pulp Section can record the completion of Mr Raitt's work on the utilisation of bamboos for paper pulp. The Section is now engaged in improving pulp technique and in evolving a cellulose from bamboo suitable for artificial silk manufacture. Success appears to be in sight but a little more work is necessary to make certain that the process is a commercial possibility. Other raw materials such as forest grasses, flax waste, and bagasse have also received their quota of attention, and those interested have been kept in touch with the progress made.

In conclusion, it can be definitely recorded that utilisation in forest products has made distinct advances in the past 5 years, and it has been very noticeable that both Government departments and the public have yearly taken more and more advantage of the valuable research work being done by this Branch of the Forest Research Institute.

20. Forest Botany.—During the period under review the systematic study of some genera of important timber trees has been undertaken and completed and much help has been given to Forest Officers and others in India and Burma in the identification of numerous plant specimens and in supplying technical advice in botanical matters. The herbarium at the Central Institute has been added to considerably from Indian collections and collections obtained by exchange with other botanical institutions. As usual considerable quantities of seed have been supplied to enquirers and institutions in various parts of the world. Tours have been made by the Forest Botanist and his staff in connection with the investigation of botanical problems, the collection of plant specimens and the identification of trees of forest importance. Planting in the arboretum at New Forest has been continued and many new and interesting plants established; a new botanical garden has been started which is intended to be used for technical, educational and ornamental purposes.

Mycology.—The problem of shisham mortality in the Punjab plantations and in the forests of the United Provinces has been investigated. Shisham trees have been inoculated with a fungus isolated from diseased and dying trees and also with cultures of Polyporaceae, fungi which are generally associated with dead trees, and the results watched. Good progress has been made in the investigation of various parasitic rusts as a result of which Peridermium on the stems of Chir pine has been co-related with a rust on Swertia and a Peridermium on the blue pine with a rust on Ribes while similar investigations on the needle diseases of other conifers have been undertaken. Studies relating to other wood rotting and parasitic fungi which intest important timber trees have also been undertaken and numerous inoculation experiments done on Pine and Deodar in the Chakrata forests.

21. Forest Entomology.—In entomological research the quinquennium has been marked by successful results in several of the major projects planned by Dr. Beeson for investigation on broad lines over a prolonged period.

Time has shown that the control measures devised for the sal borer, Hoplocerambyx, are effective, practical and inexpensive. They are adopted as standard measures, not only in the Central Provinces where they were first enforced in the great-epidemic of 1927, but in all sal forests where this pest is a danger. The virtual elimination of Hoplocerambyx by these methods has raised the importance of the secondary borers of sal to a stage at which it is advisable to apply remedies. Damage by secondary borers has been studied and remedial

measures have been instituted that are at once effective and profitable. The comparative importance of insects and of other factors in the dying-off of sal can now be correctly estimated.

An extensive survey of the conditions governing the defoliation of teak has been conducted in various parts of India, but mainly in Nilambur. The complicated life-histories of the primary and secondary defoliators and their local divergences from the normal have been worked out. The host of associated natural enemics—predators and parasites—has been the subject of many careful breeding experiments and of taxonomic work by specialists. Dr. Beeson's scheme for the prevention of defoliation rejects entirely the use of insecticides and direct attack, and relies on biological control by the maintenance in a plantation of optimum cenditions for natural enemics which is ensured by the retention of subsidiary plant growth.

In connection with the spike disease of sandal a comprehensive survey of the insect fauna of this tree was undertaken in Madras and Coorg for the identification of which the assistance of 35 specialists was secured. Out of these thousands of species a few were isolated as probable vectors of the disease and experimental evidence was obtained that incriminated a jassid bug as the primary agent of infection. At the time when unassailable proofs of transmission of the disease by an insect were being collected the special grant subsidising the research was terminated. Thirty-three publications were issued on this investigation.

Insects attacking the living culms as well as cut bamboos have been studied. Investigation of the life-histories of Dinoderus and the effect of the season of felling (and incidentally of the phases of the moon) showed that efficient protection is obtainable by improved methods of extraction and storage, as well as by antiseptic treatment. It was demonstrated that specifications for tent and telephone poles, lance staves and lathis are unnecessarily strict and can be modified with profit.

Borers of newly felled trees and of converted and manufactured timber, particularly pinhole and shothole borers, Lyctus and powder-post beetles, have received considerable attention. The problem of protecting the log remains a local one in view of the great diversity of India's borer fauna. In mills and factories, on the other hand, general hygienic principles are more universally applicable and have been successfully introduced to departmental and private concerns.

Seventy-four publications were issued by the Entomological Branch during the period, including Mr. Gardner's valuable reports on the immature stages of Indian insects.

22. Chemistry.— During the period of 5 years under review, apart from routine investigations, considerable progress has been made in the chemistry and utilisation of various minor forest products. Some of these have led to the development of a valuable trade in herbs and particular mention may be made of Artemisias, Ephedras, Derris and Adhatoda vasica. Indian species of Artemisias were, at one time, regarded as useless for the extraction of the valuable drug santonine; but the work carried on in this branch showed that some of the Indian species are as rich in santonine content as Russian species; which at one time held the monopoly. This had led to the development of a considerable export trade and establishment of a factory for the extraction of santonine in Kashmir. The same can be claimed for Indian Ephedras which only a few years back were practically unknown in foreign markets. Apart from the above, the isolation and chemical study of the active principles of many other indigenous drugs was taken up, especially Actinodaphne hookeri, Adhatoda vasica, Putranjiva-rorburghii and Aconstum chasmanthum.

Oil bearing seeds of many forest trees have also been studied and a few items of economical value have been discovered; for instance an indigenous and rich source of Jauric acid in the fats of the Lauracea. The use of Lauric Acid and its derivatives as valuable detergents as now coming into prominence and already enquiries have been received for the collection of large quantities of berries.

Mention may also be made of the preparation, development and large scale manufacture of "Fridera" a composition for reconditioning the abrased spike holes in wooden sleepers. This composition has been patented and is now being used on many of the Indian Railways. The results of the above investigations have been embodied in 30 odd papers published in scientific journals and departmental publications.

Forestry Committee.

- 23. The recommendations of the Forestry Committee referred to in the last quinquennial review were duly considered by the Government of India and their decision on the various recommendations are detailed below:—
 - (1) Constitution of an Advisory Board.—Owing to the prevailing financial stringency the constitution of the Advisory Board for the Forest Research Institute, Dehra Dun, was postponed and the Board of Forestry was allowed to continue.
 - (2) Enhancement of the powers of control of the President, Forest Research Institute.—Powers of the Inspector General of Forests and President, Forest Research Institute and College, Dehra Dun, to sanction capital expenditure under Article 69(V) of the Forest Department Code (7th Edition) were raised from Rs. 5,000 to 10,000 and, subject to budget provision, he was also empowered to sanction the creation of temporary posts both at the Forest Research Institute and in his own office on pay not exceeding Rs. 100 per mensem.
 - (3) Appointment of a Director of Research.—The consideration of the question of appointing a Director of Research was postponed for both financial reasons and constitutional considerations.
 - (4) Appointment of a Personal Assistant to the President.—The recommendation to create the post of a Personal Assistant to the President of the Forest Research Institute has been given effect to.
 - (5) Centralisation of Branch Offices.—The recommendation was given effect to and all Branch Offices were centralised except the office of the Forest Economist which was allowed to function separately.
 - (6) Methods of recruitment of Sectional officers and subordinates.—As regards improvements in methods of recruitment and training of staff for scientific research at the Forest Research Institute suggested by the Committee the Government of India after careful consideration decided not to prescribe any general rule. The detailed recommendations of the Committee in this respect were however carefully considered and decisions recorded.
 - (7) Necessity for training officers abroad.—The Government of India already have a definite policy for sending their officers for special training abroad whenever it is necessary. As this policy has so far worked satisfactorily it was decided not to make any modifications in it.
 - Maintenance of touch with Forest Officers in Provinces and Railways, etc.—
 As the Economic Branch of the Forest Research Institute is already in close touch with the Railways no further action in that direction was considered necessary.
 - The suggestions made by the Forestry Committee that provincial silviculturists and Working-plan Conservators should visit Dehra Dun at least once in every two years and that provincial officers even if they are not definitely engaged in research work should be encouraged to visit the Institute in order to gain some idea of the scope of work done at Dehra Dun were commended to local Governments for consideration and accepted by most of them. At the meeting of the Board of Forestry held in October 1934, it was

stressed that officers of the Forest Research Institute should also be afforded full facilities for touring in the provinces with a view to gaining first hand experience of local conditions and disseminating information among the administrative and executive staff.

Protection of the Fauna of the Country.

24. A greater interest was evinced in the protection of the Fauna of British India and Burma during the five-year period in various provinces.

In Bengal the Rhinoceros and Elephant Preservation Acts of 1932 were promulgated. In Assam the Rhinoceros is effectively protected.

In the Punjab rules under the Wild Birds and Wild Animals Protection Act, 1933, have been framed and brought into force. A bill to establish a permanent sanctuary in the United Provinces is under consideration in the local legislature.

The aggregate area of game sanctuaries in Burma and the Federated Shan States was 516 square miles at the close of the present period of review. Owing to financial stringency the post of Game Warden was abolished but substantial progress in the control of firearms and ammunition was effected.

In Madias radical changes in shooting rules are under the consideration of the local Government. A bill to provide protection to wild animals is also being introduced in the Central Provinces' legislature.

As an outcome of the agreements concluded at the International Conference for the protection of the Fauna and Flora of Africa which was held in London in November 1933, the Government of India convened a Conference in January 1935 in which all provinces of India and principal Indian States participated. The Conference among others considered the following important items:—

- (1) The present position of the Fauna and Flora of India with a view to consider their protection in and outside forests.
- (2) Inoculation of village cattle in the vicinity of game preserves.
- (3) Measures to restrict the possession of weapons.
 - A draft convention has accordingly been drawn up and will be circulated for criticisms.

On the whole there is greater awakening both on the part of the general public and the Government to this very important question and considerable progress may be looked forward in the near future.

C. G. TREVOR,

Inspector-General of Forests

to the Government of India.

The 27th April, 1935.

List of Forest Publications issued by the Forest Research Institute, Dehra Dun, during the 5-year period ending 31st March 1934.

1.—BULLETINS (NEW SERIES).

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No.	$\mathbf{R}\mathbf{s}$. Д.	r.
71.—A List of Trade Names of Indian Timbers	0	Б	0
72.—Instructions for the Operation of Timber Seasoning Kilns, by S. N. Kapur.	1	12	0
73.—The Herbarium of the Forest Research Institute, by R. N. Parker.	0	ð	0
75 —Preservation of Indian Timbers—the Open Tank Process, by F. J. Pophain.	0	10	0
76.—List of Plants collected in West Nepal	0	4	0
77.—The Identification of Important Indian Sleeper Woods, by K. A Chowdhury.	8	0	0
78.—The Problem of the Pure Teak Plantation, by II. G. Champion	0	12	0
79.—Calorific Values of some Indian Woods, by S. Kushna and S. Ramaswami.	0	12	0
80.—List of Trees and Shrubs for the Kashmir and Jammu Forest Circles, by W. J. Lambert.	0	12	0
S1 —Testing and Selection of Commercial Wood Preservatives, by S. Kamesam.	0	14	0
82.—The Measurement of Standing Sample Trees, by H. G. Champion.	1	2	0
83.—Provisional Yield Table for Quereus incana (Banj or Ban-oak) by H. G. Champion and I. D. Mahendin.		14	0
84.—The Identification of the Commercial Timbers of the Punjab, by K. A. Chowdhury.	3	0	0
85.—A Record of the Results obtained with Experimental Treated Sleepers laid in the Indian Railways between 1911 and 1916, by S. Kamesam.		8	0
86.—Cold Werther Planting in Northern India, by II. G. Champion.	0	9	0.
2.—RECORDS.			
Vol. XIII, Part VIII.—Volume and Outturn Tables for Blue Pine (Pinus exectsa, Wall), by II. G. Champion, Ishwar Das Mahendiu and Parma Nand Suri.		2	0
"," "," IX.—Commercial Timber (Katha) and Heart wood Volume Tables for Kharr (Acacie catechu) in North India, by the same authors.	2	14	0
,, ,, X.—Yield Tables for Blue Pine (Pinus creelsa Wall), by the same authors.	, 1	. 9	0
" XIV, " I.—The Burma Bamboo Pulp Survey, by W	. 2	2 10	0
" " " " II.—Denudation of the Punjab Hills, by B. Coventry.		ļ· 1	. 0
,, ,, III.—Investigations on the Infestations of Peridentium complanatum, Barelay, of the needles, and of Peridentium humaldyense, on the stem of Peridential longifolia, Rozh, by K. D. Bagehes	n M	2 12	0-
IV.—Immature Stages of Indian Coleopter (6), by J. C. Mi Gardner.		1 ,5	2 0

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Vol.	XIV,	Part		Hemptera—The Indian Species of Paloius Muls, and some Associated Beetles, by K. G. Blair. Part VI—Two New Species of Colcoptera from India, by E. Fleutiaux. Part VII.—Some New Indian Cerambyeidae, by J. U. M. Gardner. Part VIII.—Some Records of Indo-Malayan Psyllidae, by F. Laing.	1	2	0'
;;	11	33	IX.—On	the Genus Xyleborus—Neue Xyleborus Artenaus Indien, by Hans Eggers. Part X.—The Biology of the Genus Xyleborus, with more New Species, by C. F. C. Beeson.	1 1	С	σ
37	,,	33 '	XI.—On	some Indian Colcoptera.—A New Genus and New Species of Melasidae and a New Species of Elateridae, by E. Fleatiaux. Part XII.—A New Genus and two New Species of Longhoin Beetles from India, by W. S. Fisher. Part XIII—Immature Stages of Indian Colcoptera (7), by J. C. M. Gardner. Part XIV.—Three New Species of Lycidae, by R. Kleine	1	0	G'
,,	XV,	,,	I.—Cla	ssification of Thinnings	0	1 ‡	0_i
,,	,,	,,	II.—A	Hossary of Technical Terms for use in Indian Forestry.	0	6	0,
n	n	"	III.—Sta	udard, Commercial and Heartwood Volume Tables (Factory Working) for Kharr (Acacra catechn) in North India by II. G. Champion and Ishwar Das Mahendru.	•	5	0
,,	"	"	IVVol	ume Tables and Diameter Growth Curve for Semal (Bombar malabari- cum), by Ishwar Das Mahendru.	0	9	0
17	"	,1	V.—Prov	isional Volume Tables and Diameter Growth Curve for Semal (Bombax malabaricum) in the Central Provinces, by the same author.		2	0
n	,,	,,	VI.—Bran	nch Smallwood Tables for Shorea robusta, Icctona grandis, Cedrus deodara, Pinus excelsa and P. longus folia; compiled in the Statistical Section, F. R. I.	•	3	0
77	,,	,	VIIPro	visional Volume Tables and Diameter Growth Curves for Holopteles integri- folis (Lanju) and Trewis nudiflore (gutel), by Ishwai Das Mahendru.		12	0
"	. "	,, T	/III.—Mui	ltiple Yield Tubles for Deodar, by H. G. Champion and I. D. Mahendru.	. 4	8	0
"	XVI,	,,	I.——III 118	itrations of Indian Forest Plants—Part II—Five Species of Dipterocurpus, by R. N. Parker.		0	0
رو	<i>n</i>	<i>y)</i>		an Ephedras, by S. Krishna and T. P. Ghash.		14	0.
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'n	A 24	20		auture Stages of Indian Colcoptera (9), by J. C. M. Gardner.	1	2	9

2.—RECORDS—contd.

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Vol.	. XVI,	Pat	rt V.—Investigations on the Seed and Seedlings of Shorea robusta, by H. G. Champion and B. D. Pant.	1	16	0
**	3)	1>	VI.—The Use of Stumps (Root and Shoot Cuttings) in Artificial Regeneration, by the same authors.	2	4	0
7;	33	.	VII.—Notes on Pinus longifolia, Royb.—The Plantations in Dehra Dun and the Central Provinces and Miscellaneous Seed Studies, by the same authors.	1	10	0
2)	,,	,,	VIII.—New Indian Curculionidae (Col.), by Sir Guy A. K. Marshall.	0	6	0
**	"	17	IX.—The Life-History and Control of Celosterna scalinator (Col. Cerambyeidae), by C.F. C. Beeson.	0	8	0
,,	"	,,	X.—New Species of Exocentrus Mulsant from India, by W. S. Fisher.	0	7	0
,,	"	"	XI.—Immature Stages of Indian Coleoptera (10) Anthribidao, by J. C. M. Gardner.	0	5	0
,,	XVII,	,,	I.—Entomological Investigations on the Spike Disease of Sandal (Santalum album), by Cedric Dover.	1	0	0
93	,,	,,	II.—Treatment of Babul (Acacia arabica), by S. A. Vahid.	1	14	0
**	"	3)	III.—Immature Stages of Indian Colcoptera (11), (Platypodidae), by J. C. M. Gardner.	0	Ð	0
7)	"	"	IV.—The Sutlej Deodar—Its Ecology and Timber production, by R. M. Gorrie.	3	2	0
,,	,,	"	V.—The Importance of the Origin of Seed used in Forestry, by H. G. Champion.	2	12	0
,,	,,	,,	VI.—New Cerambyeidae from India (Colcoptera), by W. S. Fisher.	0	2	.0
"	"	,,	VII.—Interim Report on Work under Project No. 2, Strength Tests of Timber in Structural Sizes, with Test Results up to 1932, by L. N. Seaman.	1	0	0
,,,	,,,	2)	VIII.—Immaturo Stages of Indian Coleoptera (12) (Carabidae), by J. C. M. Gardner.	0	9	0
"	37	,,	IX.—Entomological Investigations on the Spike Disease of Sandal (2) Bostry-chidae, Platypodidae and Scolytidae, by C. F. C. Beeson.	0	4	0
"	,,	"	X.—Entomological Investigations on the Spike Disease of Sandal (3) Membracidae (Homopti), by W. D. Funkhouser.	0	6	0
"	XVIII	, ,,	I,—Entomological Investigations on the Spike Disease of Sandal (4) Cercopidae (Homopt.), by V. Lallemand.	0	2	0
"	"	"	II.—Entomological Investigations on the Spike Discase of Sandal (5) Brenthidae and Lycidae (Col.), by R. Kleine.	0	2	0
"	"	,,	III.—Entomological Investigations on the Spiko Discase of Sandal (6) Anthribidae; by Karl Jordan.	` 0	3	0
>,	* 23 `	, ,	IV.—Entomological Investigations on the Spike Disease of Sandal (7) The Genus Exocentrus (Cerambyeidae), by W. S. Fisher.		•	, 0

2.—RECORDS—concld.

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Vol.	XVIII	Part V.—Entomologi Disease II. E. Ar	ical Investigations on the Spike of Sandal (8) Carabidae, by odrewes.	0	7	0
"	33	Disease o	neal Investigations on the Spike f Sandal (9) Neuroptera, by an Banks.		5	0
"	1,,	Discase o	al Investigations on the Spike f Sandal (10) Melasidae and e, by E. Fleutiau	0	5	0
"	"	,, VIII.—Entomologi Disease	cal Investigations on the Spike of Sandal (11) Fulgoridae. (1) by N. C. Chatterjec.	0	12	0
"	33	" IX.—Immatue S	tages of Indian Colcoptera (13) bidae), by J. C. M. Gaidner.	1	0	0
,,	,,	X.—Third Interi The Phy	m Report on Project No 1.—sical and Mechanical Properties grown in India, by V. D.	i	4	0
"	,,,	dermum	ons on the Infestation of <i>Peri-</i> himalayense on <i>Pinus longi</i> - rt II by K. D. Bagchee.	4	4	0
, ,	"	" XIIA Stand	Table for Sal (Shorca robesta) d High Forest, by 1. D		5	0
7)	**	" XIII.—Entomolog Disease o morpholo	rical Investigations on the Spike of Sandal The Lufe-hustory and ogy of Eurybrachys tomentose 12) Fulgoridae (Homopt.), by	i s	12	0
>>	XIX'		ptera from India, by Dudley	. 0	6	0
,,	"	,, II.—Entomologica Disease and Cer	of Sandal (13) Membracidae copidae (Homopt.), by N. C.	;	4	0
••	19	,, IIIRegeneration	and Management of Sal, by hampion.	5	0	0
23	,,	" IV —Entomological	l Investigations on the Spake f Sandal (14) Jas-idae (Homop)		0	0
,,	71	,, V.—Entomological Dı-caso (Col) an	l Investigations on the Spike of Sandal (15) Cicindeldae d Supplementary Data on Neu- and Elateridae (Col.), by N. C.) -	5	0
"	2)	Discase	l Investigations on the Spike of Sandal (16) Coccinellidae y B. Koischefsky.	0	6	0
(ر	3)	Disease (Col), S	of Investigations on the Spike of Sandal (17) Coecinellidae Supplementary Data, by N. C. ee and M. Bose.		5	0
23	", _}	, VIII.—Entomologic Disease (Homopt M. Bose.	eal Investigations on the Spike of Sandal (18) Fulgoridae), by N. C. Chatterjee and	•		0
Mai	nnal of	otany, by R. S. Hole (MANUAL9 Reprinted)	3	8	0
Silv	icultura mental	Research Manual for a	ise in India, Volume I, (Experi-		2	0
· J	(Section	cal Gode), by H. C. C	hampion and I. D. Mahender.	12	10	0

4.—OTHER PUBLICATIONS.

	Price (exclusive of pack-
	ing, postage, etc.)
	Rs. A. P.
Forest College, Dehia Dun, Calendar, 1931	5 2 0
The Progress Report of Forest Research Work in India, 1928-29	460
Tho ,, ,, ,, ,, ,, 1929-89.	
The , , , , , , , 1930-31 .	
The Progress of Forest Research in India, 1931-32, Part I.—The	2 0 0
Forest Research Institute.	0.74 0
The Progress of Forest Research in India, 1931-32, Part II.—Provincial Reports.	
The Progress of Forest Research in India, 1932-33, Part I.—The Forest Research Institute.	2 0 0
The Progress of Forest Research in India, 1932-33, Part II.—Provincial Reports.	2 0 0
Progress Report of the Imperial Forest College, Dehra Dun,	
for 1928-29.	
,, ,, ,, ,, ,, ,, ,, 1929-30.	
,, ,, ,, ,, ,, ,, ,, ,, 1930-31.	
Progress Report of the Indian Forest Service and Forest Rangers	
Colleges, Dehra Dun, for 1931-32.	-
Progress Report of the Forest College, Dehra Dun, for 1932-33	0 12 0
Annual Return of Statistics relating to Forest Administration in British India, for 1928-29.	10 0 0
Annual Return of Statistics relating to Forest Administration in British India, for 1929-30.	180
Annual Return of Statistics relating to Forest Administration in British India, for 1930-31.	1 11 0
Annual Return of Statistics relating to Forest Administration in British India, for 1931-32.	1 12 0
Annual Return of Statistics relating to Forest Administration in British India, for 1932-33.	1 14 0
Classified List of Officers of the Indian and Provincial Forest	A.
Services and of the Forest Engineering Service in India and Burma on 1st July 1929.	i
Classified List of Officers of the Indian and Provincial Forest Services and of the Forest Engineering Service in India and Burma on 1st July 1930.	·
Classified List of Officers of the Indian and Provincial Forest Services and of the Forest Engineering Service in India and	t 400
Burma on 1st July 1931. Classified List of Officers of the Indian and Provincial Forest Services and of the Forest Engineering Service in India and	t 410 0
Buima on 1st July 1932.	
Classified List of Officers of the Indian and Provincial Forest Services and of the Forest Engineering Service in India and Burma on 1st July 1933.	440
The Common Commercial Timbers of India and their Uses, by H. Trotter.	7 1 12 0
The Forest Research Institute Guide	. 0 3 0
Forty Tiees Common in India, by R. N. Parker	360
Tables for use with Brandis' Hypsometer for measuring the height of Tices, etc., by F. B. Manson and H. H. Haines.	0 10 0

STATEMENT I. Area of forests under the control of the Forest Department.

Province.			Forest area i	n square miles	8.	Percontage of forests	
Name.	Area in square miles,	Reserved.	Protected.	Unclassed State.	Total.	to whole area of Province	Remarks.
1	2	8	4	5	- 6	7	8
Bongal	75,857	6,469	705	3,115	10,639	14	
United Provinces	106,014	(a) 5,185	4	52	5,211	49	(a) Includes I square mile of leased forests.
Panjab	95,315	(b) 1,531	(c) 3,207	(d) 455	5,193	54	(b) Includes 316 square miles of leased forests but excludes 501 square miles of reserved forests not under the control of the Forest Department
,		,					(c) Excludes 63 square miles not under the control of the Forest Department.
Burma • • •	162,900	31,533	•••	91,638	128,371	67 1	(d) Excludes 235 square miles of civil forest and village forest lands
Federated Shan States .	60,615	3,169	•••	56,358	59,547	98 2	
Bihar and Orissa • •	83,021	(e) 1,8 1 9	<i>(f</i>) 1,156	(g) 7	3,012	36	(e) Excludes 284 square miles belonging to private estates under their own management
Assum	55,445	6, G30	•••	14,818	21,446	38 7	(f) Evolutes 691 square miles under the Civil Department and 102 square nules belonging to private owners. (g) Evolutes 121 square miles belonging to private individuals nuder nigotiation with a view to reservation or protection.
Central Provinces (including Berar).	99,957	(h) 19,430	440	,	19,430	19 4	(h) Excludes 174 square miles of leased forests.
Coorg	1,593	519	337 '		.S56	58 7	
North-West Frontier Pro-	13,183	245	105	•-•	350	26	
Ajmor-Morwara	2,767	142			142	5 1	
Baluchistan (portions under British Administration)	54,22 8†	316		472	788	15	
Andamans and Nicobar	3,143	52	,	2,137	2,189	60.6	
Madras	142,218	15,652	(1) 621	***	16,278	114	(t) Represents reserved and leased lands.
Bombay (including Sind)	123,247	18,317	868	- " -	(3) 13,185	11 5	(r) Includes 2,279 aquare miles of reserved and protected forests not under the management of the Forest Department.
Total 1933-84	1,099,503	106,079	7,003	169,582	282,664	25 7	
1022-32					261,219	23 7	
1031-99	1,101,902	,			245,831	22 3	
1020-91	1,102,595						5
12711-90	1,102,505					, ,	
,, 1521-00	2,200,100		Dolhi Provi	, , ,			

^{*} Fxeluding Bolhi Province and Pargana Manpur. † Figures taken from the Census Report of 1931.

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STATEMENT III.

Demorcation and maintenance of boundaries.

	Length of	Length of	Longth of	Total longth of artificially marked	Length of boundarie	Long nati	th of aral laries	Total	Expendi tion di	ture on d iring the	emarca- year.
Province.	Length of boundaries artificially demarcated during the year.	Length of previously oxisting boundaries ropaired.	evicting boundaries not ropaired.	artificially marked boundaries at the close of the year.	not demarcate at the clos of the yea	d requ	iring fioial	length of boundaries at the close of the year	On no work	On	ropairs.
1	2	3	4	5	6		7	8	9	_	10
		Miles.	Milos.	Miles	Milos	M	ıles	Mıles.	Rs	.	Rs ,
Bengal • • •	416	1,005	2,00%	3,455		34	1,386	4,875	7	,083	7,831
Inited Provinces	, 23	3,031	5,629	8,682		2	2,881	11,568	1	,259	14,890
Panjab •		1,730	7,111	6,841		1	1,268	10,113	•	-	6,819
Burma .	. 308	1,852	15,59.	17,759	2	226	4,000	21,978	•	4,218	13,515
Federated Shan State	8	78	1,260	1,938			590	1,923			671
Biliar and Orissa		3,675	1,19	2 4,66	7		358	5,22	5	9	3,921
Assam	2	4 1,54	2 1,21	9 2,78	5	99	2,592	5,47	6	.	6,010
Central Provinces	-	3,47	5 29,4	32,69			3,51	86,41	ıo	12	6,507
Coorg · ·		1	14 4·	15 4	6 9		6	7 5	36		763
North-West Front	ior	41 2	08 5	69 8	18		13	9	57	908	1,718
Province.		10	18	200	:39		18	58' 3	197	150	50
Baluchistan •		28	132		1GN	•	,	77	537	•••	149
Andamans						36		23	59		
Madras • •		189 20,	576 2,	401 23,	168	2,590	2,6	267 29,	025	4,196	10,376
Bombay •	•,	106 24,	876 13	,016 37	,993	45	2,	627 40	,670	1,519	2,327
					_ -			_			
(1933-	31 - 18	1,180 6	2,511 8	0,072	3,763	3,038	21	,953 16	8,749	19,411	77,105
		759 6	1,613, £	0,999 1	3,071	1,202	, 2 1	1,823	6,396	18,001	73,21
, , ,1932		777	57,263 S	85,085 1	ļ3,110	1,422	, ż	1,555	66,096	17,63	o 62, 69
. Total 193	1-32		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	'	42,486	- ágr		\ '		- . 32,16	1,08,1
1930	· ·-	,1,152	61,980		· - {} '				162,806 }	, 17,9	74 1,03,
192	9-30 .		61,199	78,678	149,860	937	1	21,045	202,000	1	1 D 2

STATEMENT IV. Forest survey operations from 1st April 1933 to 31st March 1934.

	Fores	t survey	oper	ations	110111	Tat Whi		10 0130 121	1	
		Nature	i	rey opor		Total : of detail s		Expenditure of the year xnoluding mapping charges debitable		Remarks
Province.	Forest surveyed	Detail 8	Cost	Detail s	Cost	1933 34	Total up to dato	το		
1	2	8	4	5	6		8	9	-	10
Ajmor .	***						172-0	Rs. A. F.		
Andamans	•			***		411	527			-
Assum •			. -	.		.	5,891	62	,	
Baluzbistan			.				240	990		
Bengal .	. Chittagong Hall	Tracts 20	01 25	\		(a) 201	1.25 5,5		(o) Ordinary surveys not paid for by Forest Department
Bihar Onesa.	and Sambalpur Eas	·	73 15			(6) 7	73 15 2,5			(b) Ditto.
Pombay .			•••				18,	232 90		
Burma .	Upper Chu d Lower ,, Myittha .		38-93 138-28 300-41	1 1		(d,1	38-93 38-28 390 44	3,049·13	-	(c), (d), (e), (f) Cost of surreys c debutable to "Forests".
Contra	Pro-		* ***		•••	= -		9,636 80	 1	or All
Coorg	-	···			a	, 1g²		475.00		2 C

STATEMENT IV—contd. Forest survey operations from 1st April 1933 to 31st March 1934—contd.

		Naturo	of su	rvoy opor	ations.	 			
	Forest surveyed.	1* Detail so	12.402	4. Dotail s	arvoy.	Total a of detail s	area aryoy.	Expenditure of the year including mapping charges debitable	Remarks.
Province.	Rofott Burveyou.	Aren	Cost rato	Arca	Cost	1933-34.	Total up to dato.	to "Forests".	
1	2	3	4	5	6	7	8	9	10
India •			•		***	•••	•••	Rs. A. P.	
Madras -			844		n		18,216-57	-	
nw, f. P.							465 00	******	~
Punjab •	•			114	•	•••	4,385 0		
Volted I vinces.	Pro-				•••		7,149	70	Contributions to Forest Map Office by Provincial and Central Governments (after emergency cut).
TOTAL 193	3-34 let April 1983 to March 1993.	Blat 960'	78			900 7	3 106,510	Rs A. r.	Rs 40,560
793	March 1931. 12-33 Int April 1932 to March 1933.		55		•••	402 5	5 105,579		41.952
701	March 1933. 1-32 let April 1931 to : March 1932.	i	, i i	. ' 3.7	9	400-0	3 105,176	.77 6,826 0 ·0	1
70	l l			0000		1	101,694	2,58,901 0 0	40,000
	18. April 1938 Se March 1931. 29-30 Tat April 1929 to March 1930.		73 -	_ £00°	75	1,762	£5 101,873	2,44,091 0 (86,0Q0 -

STATEMENT V.

Progress made in working plans.

			•	Pro	gress	mau	Q 111	11011		<u> </u>									1
		ron under		w bore	orking	plaus		Area n	ot und	er wor	king plan	Total			R	0718100	08		'
-	<u></u>	ron under	r sanotto			t close]	Plans 1	not under	_			d of the		d during	ng plans	1.4
Province	At communeement of the year	. 13.1 January the YOUT	1	Deducted during the your		er Actual area	Percentigo of total lotera area (as shown in column o 10).		7	o Roquired at present.	Not rounted at present.	of references	Total forces meet in 2000 of columns 5, 7, 8 and 9)	Duo or roquired.	1		Rovierd plans sanchoued the 30th	Expenditure on working during the year	
1	2	_	3 \-	4				-\		Sq. 1	n Sq		Sq. m	Sq	m S	g m	Sq m	Rs	
Bengal	Sq z	m Sc 763	1 m	Sq n	· ·	6,763	63	- 1	m 1		111	8,761	10,639			105 1,680	71	3 1,03,	; ; 178
United Provinces	5	,206	175		177	5,204	99	3 .	13		5	19	5,24° 5,19		.	1,261		.2,7	•
Panjab • •	2	350	23		24	2,579		16	134		1,296	2,680 1,254	(a) 31,5		\	4,971			. ,
Burma	. 2	4,971	121		111	21,957		79 13	956		21	1,528	(a 3,1	,		81	2 .		
Federated Shan States	•	1,373	•		.	1,87			20		10	608	3,0)12	92	93	i5 \	1	,295 .
Bibar and Orissa .	1	2,230	169		14	2,39		79 18	6:	.e.	2,410	16,901	21,	418	3	:	15 .	$\cdot \Big $	
• • . mresA		1,508	:			1,5%		90		09	23	989	2 19	430		3,8	10	513 5	0,436
Central Provinces	•	17,615	•	1	3	17,6		19 7	_			69	7	850					130
Coorg		109			•••	,	245	70	•			10)5	350	•••				•••
North West From	otior	215	· ·		••		142	100	,,					142		\ .		- \	••• -
A _{jmer}		112			•	\					••	7	88	785					***
bolnehistan . •		705			•••	1	708	732 81			641	1,4	51	2,169	-		(e) 703		_37, <u>1</u> 55
Andamans		10,271		094		11	1,368	70	2	,s25	2,080			16,278			$\cdot \mid$		
Fombry .		-8,90	1	251	7:	3 26	3,191	71		520	277	2,	GS7	(d) 17,925	1,9	S1	2,4-8	313	7,716
Total 1993-3	. '}	F2 56	i 1	,873	1,0	_	3,317	63.0	,	5 161	6,230	36	461	32,208	1,3	376	16,209	1,541	
,, 19324	33 .	79,17		891	. 7	754 E	32,614	62 1	3	6,202	6,993	3 35	,642	132 559));		11,421		1 23,643
,, 1931-	3 (82 .	7.76,11	BÀ	1,235		711	79,638 860,67	ć`,,59	2	6,618	10,39	7 185	,673	134,516 1	<u> </u>		15,825	3,14	2,01,574 6 1,24,95
" 1830	31 ,	74,0	- gp	2,015		115	76, 16 2,	57		12,682 ;	11,19	- 1	3.	132,17	1		16,690	1,58	۲,
,, 1929		-) ', .) 71,1	ın	3,9 75		14	71,515	579	1	11,860	9,36	3		30,30	7 3	126	·15 561	1,93	
(u) Evo	lúiles úi	dlagge	freete	. 10.55	od fora	* * * * *	۲,			•		. • '		w)			of vol 1		

⁽a) Evolutes inclosed forests
(b) Excludes 171 square miles of leased forests. The evact area that will be included in the new working plans is not yet known
(c) The area given as that of the old working plane. The evact area that will be included in the new working plans is not yet known
(d) Excludes 2,250 square miles, qui under the management of the Porest Department.

25
STATEMENT VI.
Expenditure on communications and buildings.

i	Now W	orks	Repairs.	.]		
Province.	Buildings.	Ronds and	Buildings.	Ronds and paths	Other Works	Total.
1	2	paths.	4	5	6	7
	Rs	Rs	Rs.	Вя	Rs.	Rs.
Bongal	9,235	258	36,811	33,523	9,442	89,265
United Provinces	10,881	5,213	67,009	98,678	17,062	2,19,012
Punjab	12,630	10,951	21,177	22,686	6,518	73,992
Burma	2,468	2,513	72,286	1,11,321	7,576	1,96,167
Federated Shan States	500		2,788	2,097	808	6,281
Bihar rud Orisea	3,072	2,916	27,611	80,521	4,228	68,378
Аблата	10,803	2,891	36,425	21,601	17,303	1,18,523
Control Provinces		***	60,227	1,01,734	8,399	1,70,360
-	. 84	***	3,492	4,772	1,678	9,976
	. 900		6,5 98	17,937	2,023	27,464
Ajmer • • •			499	965	34	1,199
Baluchistan			550	72	20	643
Andamans	н	411	- 5,550	10	10,863	16,412
Madras	. 16,611	10,377	58,139	88,832	3,509	1,77,498
Bombry	. 32,715	26,070	- 21,175	85,584	9,255	1,80,789
-						

•				•		
Total 1933-31	. 99,915	60,715	4,43,297	6,53,53	98,855	13,56,31
,, 1932-93	1,01,867	1,07,650	4,28,655	6,91,26	1,00,801	14,39 20
,, 1931-32	1,67,776	1,71,630	4,42,278	. 7,78,56	1,55,962	17,18,90
,, 1930-31	. 30,23,437	21,98,620	4,75,776	7,63,73	8 3,39,03 6	CB.00,7
1029-30	33,73,523	22,93,638	- 5,94,180	10,23,5	3,74,595	75,56,2

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STATEMENT VII.

Breaches of forest rules.

			Now	Cares of	tho year				Дівро	nod of d	aring th	o year.		
	_		ling n of mor	per-				Convi	tions	Acqu	ttale.	To	tal,	
Provinco	Cares ponding from 1902-33.	Injury to forest by fire	Unauthorised fol- or appropriation wood and m forest produce	Graing without per- mission, or in tracts in which grazing is probibited	Other offeu- ces	Total now craces of the year.	Total cases.	Cases	Per- sons	Cases.	Per-	Cases	Per-	Carea pending at close of year,
1	3	3	4	5	6	7	8	9	10	11	12	13	14	15
[A	195	2	419	31	104	186	781	364	857	38	111	402	968	126
Bengul . B.	267	10	2,548	2,181	1,658	6,397	6,661	6,524	11,543	16	40	6,540	11,592	118
(c	***	74	312	1	50	437	437	"			••		•••	***
Total .	463	86	3,309	2,213	1,512	7,420	7,882	6,685	12,400	54	160	6,043	12,560	444
ſA.	88		38	30	41	112	\$10	132	330	21	74	153	401	53
United Pro-	796	32	1,614	1,850	1,168	4,661	5,460	4,287	11,647	310	560	4,627	12,207	£27
Lo		61	119	35	23	271	271				-	•••.		•••
Total .	894	96	1,601	1,915	1,235	5,047	5,931	4,410	11,977	361	631	4,780	12 611	850
[*	1,324	4	659	163	392	1,518	2,632	1,003	1,795	114	293	1,117	2,093	935
Punjab . B.	968	25	2,815	5,184	2,877	10,901	11,869	11,183	14,639	1	2	11,181	14,641	4/0
La.		53	56	55	34	199	199	***	•••					u .
Total	2,282	82	3,529	5,701	3,303	12,618	14,900	12,186	16,431	125	300	12,301	16,734	1,335
, LY -	1,012	1	1,056	21	505	1 413	2,425	1,650	2,251	177	`407	1,827	2,658	,,,
Burma B	1,498	1	8,075	349	1,896	10,821	11,819	10,016	12,170			10,016	12,179	
lo.	•••	2	113	1	13	128	128						}	
Total .	2,510	4	9,274	371	2,213	11,862	14,372	11,666	14,430	177	- 407	11,813	14,637	1,855
ζA.	9	1	38	·-	***	19	28	17	19		1	17	20	***
Federated Shau B	33		159	3E	48	225	258	147	163	}		147	163	***
↓C Total .	43		183	<u> </u>	1	6	6		100	<u> </u>	<u></u>			
ra.	35		'	18	49	259	202 396	277	182 610	27	99	164 501	709	79
Bihar and Oriser B.	116	5	3 750	651	181	4,590	4,708	4,387	12,161			4,367	12,181	203
{c.		138	18			156	156] ;	,	,	414
Total .	11:3	147	4,021	699	237	5,107	5,260	4,6G1	12,794	27	99	4,691	12,693	317
ſA.	142	2	210	22	162	296	KOS.	323	728	55	163	331	881	157
Assum . B	236		1,247	92	593	1,933	2,169	1,817	3,139	71	267	1,918	3,406	251
(c.	,	•••				,,	•		-				•••	••
- Total	378	2	1,157	114	736	2,329	2,707	2,170	8,867	129	420	2,299	4,287	408
[A	80	3	101	152	50	309	359	238	894	76	819	811	917	75
Central Pro-	3,595	135	10,850	12,129	1,486	21,600	29,495	23,612	61,219	1,189	2,503	21,801	63,722	3,094
Lo.	•••	373	I, 158	265	53	2,145	2,118	*			••	***		••
Total	3,975	510	12,412	12,516	1,550	27,057	31,032	23,650	G1,617	1,265	2,823	25,115	64,639	3,709
C. Sugar mark	2		2	1	. i		. 6	2	2			Ω	ם	4
Cours, Sim B.	. ,		10	- , 21	, - · · · · · · · · · · · · ·	39	39	36	67	3	13	39	,80	••
Total		1 2	2	31	-	3	3				•			
Total .	352,	8	7.372	26 375	7 6	46	48	ns	€9	3 702	18	41	£5	4
Frontier Pro- (1)	\$23		-201	1,693	173~ 433	928 3,120	-1,27 5 - 3,843	2,853	767 4,376	303	314	- 438 2,853	1,051 4,376	810 612
C.	44, 6	75 76	153			19	19	2,000	9,016			\$,003 •	,	•••
Total .	1,075	21	1,267		606	4,002	5,137	2,193	5,143	-	314	3,291	5,457	1,422
	-		3, 4	. 207.				7-1		-				-

STATEMENT VII-contd.

Breaches of forest rules-contd.

	Ì	l			ren of t	ho yeni			Disposed of during the year									
	•	Сляся		ciling ion of minor	racts				Convi	ctions	Acqu	ittals.	То	tal.	0			
Provi	ŧ	pen- duur from 1932-33.	Injury to forest by fire	Unanthorised felling or appropriation of wood and minor forest produce	Grazing veithou mission of in t in which grey prohibited	Other offen-	Total new cuses of the year.	Total craes.	Савеч	Persons.	Cases.	Porcons.	Савсв.	Persons	Cancs pend- ing at close of year.			
1		2	3	4	5	G	7	8	9	10	11	12	13	14	15			
	[A.	8	3	35	63	11	132	110	100	172	14	30	120	203	20			
Ajmer .	В	640	7	5 96	1,610	32	2,275	2,275	2,275	4,236	190		2,275	1,236	***			
	l c.		848	***			•••	•••										
	Total .	8	10	G31	1,723	13	2,407	2,415	2,381	1,405	14	30	2,395	1,138	20			
	۲۰.	7		30	16	1	47	51	39	80	1		40	80	14			
Baluchirtan	, .\{ B		1	73	199		273	273	273	363	•••.		273	363	***			
	₹ c.			••						•••								
	Total .	7	1	103	215	1	320	327	312	413	1		813	413	14			
	ſ A	•••		1		3	4	۵	3	1	1	1	4	5				
Andsmons	} B			13		2	15	15	13	14	1	1	15	15	***			
	c.					.												
	Total .			11		5	19	19	17	36	2	2	19	20				
	۲Δ.	3,134		7,701	1,165	511	2,765	12,699	4,611	11,623	5,723	13,078	10,367	21,701	2,532			
diadras	} B	1,121	181	14,201	2,954	1,630	18,972	23,096	15,711	31,965	2,137	4,592	17,649	35,057	5,219			
	C		1,407	401	61	4	1,579	•••		,,	111			•••	,,,,			
	Total .	7,2.8	1,619	22,300	4,483	2,175	80,610	25,005	20,355	12,688	7,860	17,670	25,215	G0, 355	7,780			
	()	126	22	161	73		390	426	563	C07	77	181	329	768	97			
Bombay	. } B	1,630	223	9,578	6,537	2,710	19,051	20,681	18,877	16,031	1	1	18,578	46,032	1,500			
Domina	(c.	63	1,722	1,559	. 21	97	3,102	3,495		.,			•••	***	•••			
	Total .	1,819	1,967	11,001	1.63,0	2,851	22,769	21,605	19,169	16,638	35	182	10,207	16,820	1,203			
				33 154	0.501	1 001	11 600	22,303	9,135	20,413	6,380	15,066	15,815	35,209	5,102			
_	\[\lambda \]	6,501	103	11,124 56,526	2,781 35,501	1,881	15,699 107,379	121,667	`	212,665	3,759	7,058	105,871	220,833	13,191			
Grand	TOTAL B.	11,288	023 8,850	4,077	417	274	8,618	0,662										
Total 18) C.			71,737	38,729	16,891	131,710	150,022		-		23,051	121,616	256,869	20,10			
10			5,126	70,315	36,577	16,835	128,853	137,000		911,227	 		111,050	car as	18,40			
10	032-33	16,177 17,985	1		36,628	15,790	119,701	130,710	, ,	¹¹ ''		1	107,000	207,021	17,67			
	30-31	10.000	3	, \$3,756	33,620	12,622	110,534	125,052			} ,	-	07,057	210.74	16,78			
,, 1		18,710	W.	, 555, 959 555, 959	33,501	15,837	110,112	120,025			4.	11.500	144,65.	977.00	2 J.1,7			

R.B.—A Cases taken into Court.
R. Gams compounded.
R. Hudetonted cases

STATEMENT VIII.

Area protected from fire.

	Vice 1	n square			Percent failure (attemp	igo of to area		
Ptovince.	Attempt-	Protected	Percent of fore under protect to tol area of resort	ate lion la control of pro-	tage of st five erra to 32-33.	1003 34.	Remarks.	
1	2	3	4		5	<u> </u>	7	-
Bengal	1,747	1,730	2	1 3	09	0.97		
United Provinces . • • •	4,41	9 4,39	1	85 2	63	-54		
Funjah.	. 19	0 B1	1	19 1	2 1	0 87		
Rarms • • • •	. 14	15 1:	10	5	67	4 14	4	
Federated Shan States		7	а	-15	17:0	-		
Bihar and Olissa	. 1,9	04 1,7	G\$	63.5	8 :	7	σ	
		22	21	-3	13 :	3 4	-5	
Asom					4.	4	12	
Contral Provinces	. 14,	252 13.0	694	73.5				
Coorg		230	523	26.0	12	3	1	
North-West Frontier Province	\cdot	115	135	123	ė	J 5.	•08	
Ajmer • • • • •		112	111	100	•,	43	-21	
Madre	. 12	,231	,450	ሳባ ቆ	1		2 (07)	
Bunkay		0,317	e,657	F57		1	7 05	
	-	_				_		
Total 1935-39 '		18.513	IC,253	420		49	46	
. , 1937 33		14,813	11,870	12 3		47	42	
, 1931-32		10,271	48,276	40 8		43	66	
Fig. 1930 31		45,839	43 762	40 '	7	39	43	
1020 30		46,178	43,937	, 40 	0	36	47	

STATEMENT IX.

Causes of forest fires.

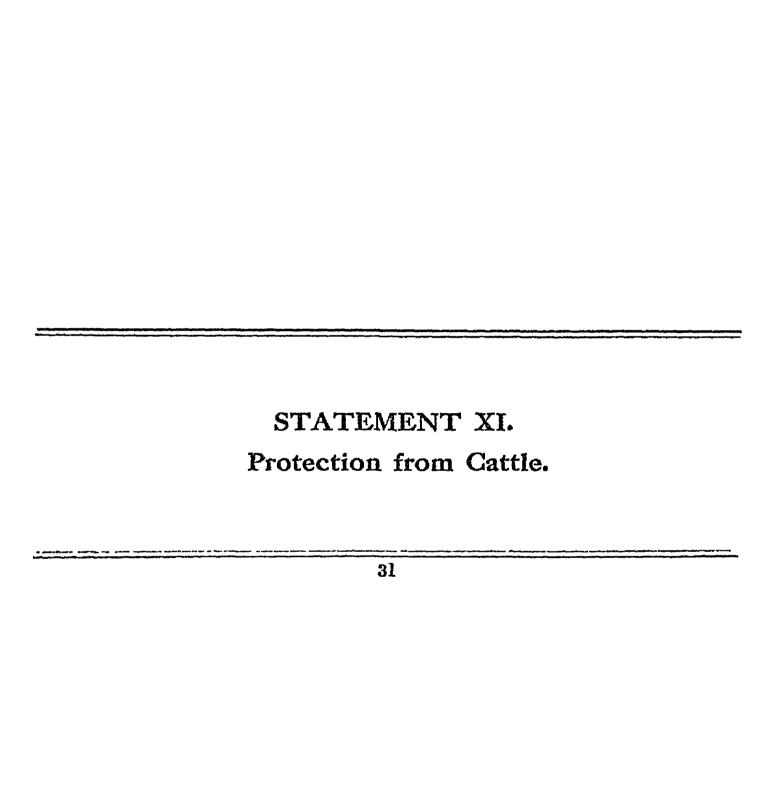
Province.	in dep	Fires originating in departmental fire conservancy operations traces			Fire- due to carelesness of outsiders.		Fires originating from intention or unlice		Fire- due to unknown causos.		Total.	
1	2	3	4	5	6	7	8	9	10	11	12	13
	No	Sq m.	No.	Sq. m.	No	5q. m.	No.	Sq. m.	No.	Sq. m.	No	Sq. m.
Bongal	. 2		3		33	7	3		28	9	69	16
Inited Provinces	. 15	2	21	4	39	1	1		58	18	133	25
Panjsb	. 5		Đ	£	74	2	8	4	3		99	8
Barrin · · ·	. 10	251	14	629	12	2 53 :		1**	33	2,7 10	60	3,603
Federated Shap States •					1	2	2	កន	1	G	4	CG
liber and Orisse	. 7	1	26	23	22	41	27	13	131	65	213	_152
Aecom • • • ·	. 1		а		15	1	12	131	.		31	132
Control Provinces	. 92	41	143	112	163	89	21	13	480	311	840	508
Coorg • • •	. 7		3	•••	7	1			15	2	32	3
Korth-West Frontier Province			1	2	10	***	7	1	а	· 	21	¥ 3
Ajmer • • •					10	•••		•••	1		11	•••
Baluchistau . • •					1	1					1	1
Andrens			***		•••					•	,	***
Madras	. 4	. 4	200	73	1,077	G G	03	35	967	Lād	2,380	767
Bombay	. 6	37	110	CD	500	210	216	16	1,013	301	1,968 r	675
		_						-				
OTAL 1933-31	. 21	5 330	633	911	2,020	693			2,583	4,074	5,030	G,34u
,, 1932-83 • •	- 18	6 393	550		1,500	2,717		1.	2,503	1,071	5,500	D 270
, 1031-32 · ·	. 10	o 81	610	\ ·-	1,820	4,030	837	-8,117	5,880	1	8,3,8	F1465
, 1930-31 . •	1:		EOG		1,258	332	1	457	2;80	ens	1.	2,07
1000.00	1	İ	GK2	413	1,360	, 45	. 581	96:	126		- 4- E- 6-1	- 0,8
. 1039-30			1				-1				\ \ -	

STATEMENT X.

Area closed and open to grazing.

		Ares in Squaro	Л 1јсв∙				
	Closed	i to all		Open to g	rizing.		
Province.	Wholo	Part of	Of all a	nimals.	Of all animal browsers (sheep and s	amula.	Fotal area s shown in Statement No I (Col.6.).
	2 euz-	Jenn	Whole	Part of	Whole year.	Part of year.	
1	2	3	4	5	6	7	8
	6,234		4,279		63	63	10,639
Bengal	1,971	68	2,281	22	843	56	5,241
United Provinces	450	26	4,105	110	385	117	5,193 -
Punjab	21,086		91	221	2,639	4,513	123,37L
Borma	2,308		•••	•••	745	136	59,E47
Federated Shan States	GOE	i	607	1	1,427	361	3,012
Bihar and Origen	K,150		14,715	•••	1,583		21,449
Assam •	2,27	2 265	3,758	3 ···	13,135	224	19,430
Central Provinces		10 43		•••		439	856
Coorg - • • • • •		36	9:	3	191		820
North-West Frontier Province			s6	3	•••	80	142
Ajmer					20 1	9	783
Baluchstan	•		•	83 2	358		2,169
Andamans	•	52	414				16,27
Madras	- 1,	959 1	96 10,8	391	5 (a)		
Bombay	- • 1,	900;	2,9	017	(a) 9,53	_	
1933-04	·	,344 1,	893 43,	826	30,91	1	
1082-33	4	1	441 43,	935	475 84,43		
Total 1031-82		6,629	,337 46,	,989	498 31,40		
1930-31	l l		,923 47	,291	487 31,2:	-	
1929-30		1,819	,030 46,	,303	586 -1 ,29	5,9	32 2,49,1

(a) Excluding an area of 2 sq miles submerged in the Bhandardara lake.



STATE

Protection

		· -		Graze	d on payn	ent, number	of animals			
Proylece,		Δŧ	full rates				At pro	vileged rates	•	
	Buffaloes	Cons and bullocks	Gonts and sheep.	Camels,	Other animals	Buffaloes	Cows and bullocks	Goats and	Camels.	Other
1	3	3	4	5	6	7	8	9	10	11
Bongal	2,669	37,497	296	,	40	75	1,900		,	7
United Provinces	50,427	144,255	102,299	1,700	1,873	5,623	29,087	21,495		149
Punjab	8,137	35,049	129,506	15,058	173	809	9,333	111,908		101
Roras ,	1,948	24,102		*30			144		 ,	
Fo Icrated Shan Stries	8,170	697			103			***		
Belief and Orises . • •	3,538	16,763	1,203		110	4,891	11,815		***	
Asan	10,805	5,371	412	••	96	5G5	405			
Central Provinces	913,578	r22,574	322,549	18	3,002	100,970	1,711,657	2,551] 	70
Coorg	260	2,064	***			·				
North-West Frentier Province .	1,722	2,420	14	••	20					
Aginer	553	5,045	"			2,830	11,870			
Balachistan	171	1,215	850	* •	58		,			
Indres	80,413	875,398	365,182	***	70	12,141	89,416	18,822	***	
lonibiy	26,661	63,503	190,362	456	7,019	227,229	990,293	404,406		1,562
Total 1133 34	401,091	1,716,83G	1,432,672	17,283	13,478	353,133	2,867,964	559,182	,	4,901
" 1932-33 [©]	887,010	1,624 321	1.267.707	ຼີ 25,090	13,756	343,980	2,845,901	891,731	***	5,118
" 1031-32	374,243	1,002.721	1,478 798	132,050	11,595	. 3 5 1,405	2,904,143	793 971		4,311
y 1930 31	, 42 5,646	J,885,252	1,312,687	25,612	·75'565	840,059	2,788,569	-1 949,521	103	2,685
" 1926 30 °	. 500,117	2,272, 5 84	2,031,369	45,878	15,194	- 428,243	**U3.71_8	875. 24 0,	- : 18	4,528

In the case of Burma and the Edgrated Shan States the funce indicate element, and not camela

۲,

MENT XI. from cattle.

				' 	ber of animals					•
Total number of animals	sattlement.	e than under	ont or otherwis	e of Governme	Daring pleasu		ment.	ht under settle	By ng	
grazed.	Other animals.	Camels.	Gonts and sheep.	Cons and bullocks.	Buffaldes.	Other animals.	Camols.	Goats and specp.	Cows and bullocks.	Buffaloes.
22	21	20	19	18	17	10	15	14	13	12
47,873	10			3,696	1,156	**1	•••			
1,021,624	174		62,171	40,728	6,072	1,492		-14,291	467,898	40,992
2,726,671	363	115	3	25,038	4,769	88,368	1,687	1,016,265	815,489	233,563
427,715		*11,022		8,966	18,161	444	*213		255,922	111,743
13,435		*200			571	•••	•••	1	3,560	4,830
425,056			800	746	51	9	•••	101,280	208,110	76,174
30,901	•••			627		a		507	6,839	5,467
3,146,580	63 9	20	1,160	259,292	4,514	•••			375	
17,463			•••	11,482	2,230	est	•••	4	482	40
24,036	•••				•••	100	500	5,5°O	9,299	6,806
21,556						,,,	40-4	101	928	201
59,9 3	•••				•••	1,600	•••	51,170	8,829	•••
1,678,17	•••;	•••	445	89,720	0,035	150	•••	5,071	10,194	2,108
2,535,73	1,917	2.481	15,031	474,187	112,099	92			G,59 7	2,216
12,079,14	8,112	13,058	79,142	015,883	155,158	42,199	2,400	1,224,087	1,789,358	482,703
11,992,6	13,660	2,092	109,428	, 920,435	147,077	43,010	2,187	1,078,097	1,808,711	439,621
12,075 3	13,668	2,183	66,280	560,981	101,724	45,479	1,887	1,671,002	1,798,325	431,878
12,624,4	13,787	1,731	65,107	793,149	156,388	• 43,126	1,687	~ 1, i 38,583	1,811,036	453, 809
14,080,1	16,438	1,058	68,838	837,105	132,329	204,041	820	1,498,514	1,682,818	364,210

Trogress in concentrated regeneration and afforestation:

34

								A	rea regenera the year	ted du	ring	Arca			Cost of regeneration and afforc-
P	rovino	e.							Mainly natural	Man	nly cial.	afforested during the year.	Tota	l ares.	station during the year, includ- ing tend-
	1								g		3	4		б	6
								-	Acres.	A	eres	Acres	1	Lores.	Rs.
sengal	•	•		•	• •	•	•				2,41 3	***		2,413	69,169
inited Provinces • •	٠,			•		•	, '	\cdot	5,629		1,292	438	5	7, 556	1,05,052
Punjab • • •	•	,	•	I		. (•		1,195		1,519	2,59	3	5,308	3,29,101
Burma • • •	•			•		:	•		2,701		3,619	•••		6,352	1,29,495
Fedorated Shan States •		;		•		-			•••		68			, 69	5,957
				τ.	_	-	-		1,290		20	3	31	1,532	8,508
Bihar and Orissa • •	•	•	1	•	•	-									
Aesam • • •	•	,	•	•	•	7.	•	•	763		1,36	7		2,13	33,309
Central Provinces •	•	,	•	•	•	•	•	٠	67,78	6	1,01	2	7	69,80	5 57,263
Coolg	; ,	•		•	7	•		•	***		- 21	50	268	57	5,646
Korth-West From Cer Provi	n c o	•					•	•			2	24	20	2	13,05
Ajuer				•	•							9			9 1S
Baluchistan • •	•	•	•	•	•	•	•				•••	- ***		•••	
Andamans	•		•	•	•	•	•	•	3:	21		65		8	11,69
Madras	•		•		5	ř	•	_ •	3	31	3,	540	291	4,:	365 53,21
Bombay	•			•	•	•	•		68,7	53	27,	041 1	,901	67,	
•	٠.	* ₍ e	,		Total	193	3-34 2-83 1-32	•	1,39,0 1,38,6 61,0	07 68 310 -	61,	757 761 637	5,619 2,525 1,562	1,57, 1,63 1,30,	411 8,8°,5 154 9.00,5 145 9,49,0
	٠,	3	-		,,	195	10 - 31			n	ot avai	lable		1,11,	258 10,16,1

STATEMENT XIII.

Outturn of forest produce.

]	·							Ave	rage Ou	tturn	per Sq	are M	ile.	
Province.	Roteried	Porests.	Protected	Forcets	Unclassed	Forests.	To	AL,	Reser Force		Prote Fores		Unch tore		Toz	Al.
P. Movines.	Timber and fuel.	Minor produce,	Timber and fuel.	Minor produce	Timber	Minor	Timber and fuel.	Minor produce	Timber and fuel	Vinor pro- dace	Timber and fuel.	Minor pro- duce	limber and fuel	Minor pro- duce.	Timber and fuel,	Minor pro- duce.
1	2	3	4	5	G	7	8	0	10	11	13	13	11	15	16	17
	O. 1t.	Rs.	C. It	Be	O ft	Bs.	O. It	Re.	C. ft	Ps.	C. It.	Re.	C. ft.	Rs.	C.ft	Rs.
Bengal	20,870,000	4,09,363	537,000	3,034	406,000	70,484	21,329,000	4,81, 880	3,140	63	718	4	144	20	2,011	45 *
Upited Provinces	81,600,000	14,07,005	22,000	47	216,000	2,672	81,607,000	15,00,321	6,000	290	5,500	11	4,320	103	6,069	286
Panjab	11,369,000	1,68,729	17,112,000	10,71,003	8,981,000	3,60,151	32,491,000	18,29,783	7,125	\$03	518,3	834	8,749	638	0,257	352
Burms	43,590,000	3,73,070			45,089,000	2,54,900	86,018,000	8,29,065	1,381	13			400	3	718	8
Tederated Elian States .	1,612,000	10,433			1,690,000	1,17,015	9,442,000	1,00 178	581	G			28	9	58	2
Bihar and Orissa	4,745,000	1,04,170	4,751,000	1,40,000		2 326	D,4°P,000	2,56,495	2,566	E6	4,112	1,291		833	3,161	48
Assam .	4,408,000	1,29,143		м.	8,018,000	\$,03, 0 11	12,514,000	5, 11, 154	C78	21	***		541	27	553	25
Central Provinces	31,682,090	21,49,757	•47	***			81,683,000	21,48,767	1,631	111			***		1,641	111
Coorg	221,123	21,973	P 5,642	250	•		318,705	23,109	432	43	281	8	•	.	572	25.8
Nerth-West Frontier Province.	2,229 000	G8,179	209,000	3,509	22,090	•	3,547,000	71,687	13,190	278	2,840	33			10,140	202
Ajmer	£52, 0 07	33,111		114	••	•••	512,907	33,441	3,492	235	•••		•••	•	3,892	235
Bajuchistan .	207,7/3	F9, 101			261,041	3	469,414	59,184	680	167	••		854		505	75
Andamans	102,540	2,560	•••	4,1	8,167,165	6,014	3,845,195	6,003	3,126	80	***		1,490	8	1,529	*
Kadres	10,187,000	11,17,410	252,000	1,05,607	2,814 000	3,36,005	21,813,000	15,00,188	1,213	71	930	170			1,179	75
Bombay	54,050,000*	18,60,510	915,000	14,770	522,00 0	•••	55,820,000	18,91,056	4,050	131	1,089	17			3,011	134
Total 1919-31 .	227,472,513	83,43,000	25,04,452	18,10,354	65,720,098	15,13,100	317,257,091	1,32,07,444	2,111	79	3,430	103	268	9	1,122	10
;, 1932-33 .	226,560,410	P7,77,47D	21,210,617	17,01,162	62,023,110	P.0,09,0	713,707,120	1,10,67,710	2,131	6 3	3,358	180	416	7	1,201	12
,, 1031-22 7	\$20,473,833	6=,70,513	23,609,538	12,00,416	61,830,177	11,08,409	305,011,033		,	13	8,533			4		
,, 1030-31	190,680,110	04,77,50 s	49,851,011		63,420,776	18,78,619	322,652,830	1,27,97,607	1,769	83	7,600	1	61	5 14	1,20	i ta
,, 1929-30	209,000,100	ŧ		V.	1 :	24,63,870		1,50,00,945	1	1		3 328	c3	B 1	3,10	5 6
	•	Inoludes le i.	el Toresta bul	erilades far	171) ood (171 -	i tons scented	wood and 12	5 tons aneco	nted and		d statt)					F

STATEMENT XIV.

Forest produce removed by different agencies.

Part I.—Timber and Fuel.

				ner a						Fuel.			
		Ву	Timber. By free	Dy rig	bt T	OTAL	By Gover	rn- nu-	By	By free grantees	By 1		OTAL.
Profince.	By Gove-n- n-ent	purchasers	granters.	holder	5 -	6	7	1	8	9	1	0	11
1	2	3		-			C 10		C ft	O ft	c	ft)
	C ft	C 1t.	C, It.	0 1	ٔ ا	C fr	"				1.		,
						g,600,000	309,	.000 13	,519,000	C82,0	00	.	t79,000
Bengal	420,000	6,293,000	17,000	'∖ '	` '	a,aoo,ao			,,				•
	221,000	7,520,000	32,00	19 0	9,000	8,732,000	146	8,000	9,013,000	120,0	18,	727,000 2	3,075,070
United Provinces	, see W	2,975,00	o c1,00	00 81	53,000	1,476,000	1,30	5,000	2,413,000	434,0	23,	,823,010	3,015,000
Panjab	· \ 556,00°	3,0,0,0							19,157,000	2,732,	000 4	,n£5,000 l	6,719,000
Burms	1,963,00	29,781,00	553,0	00 1	65,000	82,121,01	80 20	86,000	73°101°02				
V States	15,00	2,167,0	25,0	000	41,000	3,047,00	00	2,000	230,00	0		184,000	300,000
Pederated Shan States			non 57,	000	201,000	2,550,0	00	000,83	2,071,0	10 28	,000	3,697,000	6,949,009
Dihar and Origin	60,0	2,200 (···					\				7,000	7,050,670
Assam	275,0	00 4,557,	,ong 602,	,coo	•••	5,134,0	000	87,000	3,910,0	3,010	,000	1,00	11.0.0
	4,070,	nno 1,155,	,000 312	2,0.10		0,784,	,000 6,	,620,000	13,601,0	1,19	7,0-0	118,000	22,006,010
Central Provinces						151.	167	76,018	01,	EGO			167,645
Coorg	111,	050 S9	,207		•					}			2,067,000
North-West Frontier Province	. 50	,000 1,433	,000	2,000	5,000	1,450	,กวก	103,000	157,	ე ო	19,000	516,000	2,00,000
	.)		1,539			,	1,537	251,997	200,	,159		•	E51,468
Ajmet				1	_			15,549	440	a77,	520		4A,MI
Baluchistan • • • •	• • 1	,500	1,503	-450			9,373	10,01					. 079 57
Anderers	2,01	5,576	12,336	45,053	10,73	0 =,02	93,C25	729,11	2 68	,433	200,520	150,000	1,252,573
_		1.000	43,000	213,000	19,00	ng 7,0:	21,000	1,317,00	n 17,35	5,000	112,010	8,00) _{19,78} 7,00
Madras . • • •	1,0),non 1,7	1,,0						0 30,51	1.000	13,000	8,222,00	19,274,0
Bombay	6	2,3	041,0%	113,010	304,00	01 7,2°	22 <u>3</u> 0∩0	780,00	A) Jojos	.,			
				 -		-	-						
	-							12,133,9	13 152.0	55,195 10,	,1(5,0 4 1	54,677,00	0 227,061,0
Torat 1033	Si 12,	. 15,016 C9,	ec1,865	,729,163	2,659,7	780 F7,2	05,00\$. 10 و 10 مو دند				103 S	a 200,879,1
· · · · · · · · · · · · · · · · · · ·	.33 , 15,1	·1	107010.0	,007,100	3,109,	:33 001	727,579	13,759,1	38 145,7	17,053 E	,251,050	55,103,2	بر در مردید
1691	-32 . 14	915,°03 01	4 12		3,074;	CC 83.	ZQ1,=03	13,193,1	[61 150 , 6	21,650	7,882,100	54,117,9	59 227,81
	., .			, esp		-	727 CO1	15.531-5	251 140,0	14,124	7,970, 150	53,217,	250 223,73
, a	e 31 ,	-	· · · · · · · · · · · · · · · · · · ·	1,672 673	3,000,	7740 W	ATONIA LE		1	' †	_ =====	-	n40 225,02
-	3 30	,410,337 F	7,217,010	1,539,863	3,610	,101 214	1,110,820	,19,210,	•	, [9,335,60 '	53,021	130 223,02
The state of the s	•			• -	1	1	• .	}	1-	-			

STATEMENT XIV-contd.

Forest produce removed by different agencies-contd.

Part II.—Value of minor forest produce.

			Bamboo	,			Grazing	and I odde	r Grass.			Other M	nor produc	c.	
Proyince,	By Govern- ment,	B7 Purcha- scrs-	By free grantces.	By right holders.	Total,	By Govern- ment	Ry purcha- sers	By free grantees,	By right holders	Total.	By Govern- ment,	By purcha- sers,	By free grantees.	By TIRNS holders	Total,
1	2	3	1	5	6	7	8	9	10	11	12	13	11	15	16
	Ra.	Rs.	Rs.	Rs,	Ra.	Ra	Re	Rs.	Re	Ita	Rs.	Re	Rs.	Re.	Re.
Bengal	711	1,38,710	456	•••	1,87,010		36,123	42,561		78,081	8,519	2,55,171	1,067	•••	2,05,256
United Provinces .	285	71,420	31	7,000	78,817	452	1,81,598	11,323	3,12,961	5,38,727	4,74, 520	3,50,786	41	57 , 303	8,63,650
Punjab	10,813	2,010		893	13,216	12	1,30,900	42,561	18,60,727	15,5 1,3 60	2,10,207	20,609	14	22,345	2,62,209
Burma	477	2,16,111	6,594	13,003	2,36,155	***	13,165	26,882	1,29,171	1,07,008	8,131	1,61,216	1,152	10,170	1,95,002
Pe lerated Shan States.	3	3,255	1	C37	3,501		5,023	0,205	4,207	13,625	* £47	1,40 809	20	1,675	1,40,057
Bihar and Orlera •	1,052	23,93 5	420	£,310	60,102		8,006	125	1,36,970	1,40,001	1,181	42,020	152	0,373	50,832
Assam	31	40,403	11,655		61,170		33,54A	42,310	110	76,060	11,669	2,71,076	1,23,661		4,07,000
Central Provinces .	14,241	2,01,972	17,531		2,96,117	1,405	1,351,036	1,63,263	87 1	15,70,081	GD,901	2,50,614	20,181	3,400	3,13,*10
Cnorg	167	763	4		923		629		136	110		10,361	631		20,103
North-West & contier Province.			***		•••		5,541	OR	0,629	36,182	£6,210	1,166	•••	100	56,505
Ajmer	•••	045	***		G i 5	1,560	19,721	67 g	15,316	29,310	700	£,761			3,560
Balachistan							3,101		53, 610 (G1,780	773	3,234	405		4, 114
Andament		22	1,286	170	1,437					-"-		2,709	4, 078	200	7,106
Madras	23,300	B,0K,017	1,447	340	8,59,641	108	5,69,010	20,813	7,300	6,10,011	10,601	5,35,050 -	1,570	cıs	5,51,700
Вошьзу ~	262	07,058	4,910	67, 169	1,49,203		7,21,755	20,216	8,35,726	15,86,727	2,671	1,17,870	2,007	80,469	1,50,391
, .		•				,	`			٠,		·	 		
FOTAL 1033-51 .	10,037	12,59,414	43,707	77,150	14,28,378	8,420	co,or,110	4,6 3 ,038	£9,82,377	G1,48,001	8,40,903	31'cc'013	1,00,991	1,10,706	83,91,0 6 2
j. 1052 33 .	30,772	14,55,013	26,613	F1,411	10,20,975	163,0	iee,15,n3	4,15,080	22,70,102	63,62,407	8,50,602	20,10,955	1, 15,030	1,05,010	90,7 <i>5,</i> 228
1931-32	30,814	73,59,054	20,878	75,670	15,80,920	· ·	30,81,500 7	<i>j</i> •	22,01,080	. 1	ร _า ดคำอังช	23,79,603	7,70,117		2420,102
j; 1930-31 ,	31,108	14,80,786 1	22,103	1	15,70,781	15,200	37,67,011	•		60,00,rep	11,25,136	36,65,705	2,41,101	1,61,642	41,03,4*4
, 1920 20	63,662	16,43,061 ;	50,837	1	18,29,751	P,114	35,01,107	3,00,111	74,18,850 	72, 5,181	11,70,107	89,66,847	2,63,140	0,27,677	£0,∩3,81 ¢

:

STATEMENT XV.

Exports of forest produce.

				Δ	rtiolos	of fo	orest	prod	ucc.						Quantity in to (in the case and other cubic to	e of teak timbers.	Valuation : sinpme 1933-	nt in
															Average of 5 years 1928-29 to 1932-83	In 1933 34.	Total	Por ton.
						1									2	3	. 3	5
																	Re	Rs.
Caoulchor	20, TA	77	r •	•		•	•	·•	•	•	•	•	•	•	8,646	7,235	31,17,631	431
					Batt	ю л .	•	•	•	•	•	•	•	•	1,062	955	G,90,C55	723
Lao .	;		•		 Sheli	1	•	•	•	•	•	•	•	•	19,542	26,154	1,94,21,939	784
					LStic	k, ccc	d and	d oth	er kın	ds	•	•	•		7,792	9,141	15,28,093	495
Cutch and	i gam	bior	•	•				•	•	•	•	•	•	•	2,036	1,562	3,75,568	240
Myrabola	ms						•	•	7	•	•				61,027	61,835	55,93,180	ลา
Cardamu	ms		•		7			•	•		•		•		462	590	21,21,276	3,540
Sandal		•				•		•		•		•			763	938	12,50,122	1,265
Tesk	-		•						•		•		•		36,933	26,738	61,30 661	229
Other km	ids of	T00	d an	d tım	bor *	•	•	•	•	•	•	•	•	•	•••	•••	10,43 061	•••
										,	Tota	r 163	3-34				4,42,78,526	,
											,,	153	2-33				2,61,03,771	449
											37	193	1-83	•			3,89 72,658	
											,,	193	0-31		•••		6,91,67,627	944
											**	102	9 30				11,66,51,581	•••

^{*} Quantity not recorded

STATEMENT XV (a).

Imports of timber into British India.

		You	r (calen	dar).			Imports of timi	ber into British Ira.	Imports of sleep for railways in India	ito Brilish
							Cubic tons	Rs.	Tons.	Rs.
1980	•	•	~	•	•		26,413	36,03,907	•••	***
1931	• -	•	• •	•	•		17,948	20,31,273	•••	***
1982	•	•	·•	Ξ.	•	-	12,218	11,87,996	***	•••
1933	•		•	•	= ,		18,475	15,74,950	6	612
1984>				~ ~		•	19,440	15,15,018		•••

39 STATEMENT XVI.

Estimated value of forest produce given away free or at reduced rates.

Province.	Timbor.	Fuol.	Bamboos.	Grass and grazing.	Other minor produce.	Total.
1	2	3	4	5	G	7
	Rs.	Rs.	Re	Rs.	Rg.	Re.
Bougal	1,693	13,473	456	4 8,896	1,567	66,085
United Provinces	7,590	1,918	7,130	3,53 667	57,841	4.80,669
Punjab	61,118	10,89,517			14,46,053	25, 10,718
Burma	57,710	27,063	6,565	50,582	2,151	1,49,071
Federated Shua States	4,616		1	6,225	26	11,168
Bihar and Oriera	22,059	39, 131	5,775	1,30,540	Q*252	2,14.21 2
Дараш	38,361	21,226	11,655	44,829	1,23,661	2,43,735
Central Provinces	42,803	67,617	17,531	13,76,743	22,581	18,17,506
Coorg	•••	•••	4	3,819	631	65 3
North-West Frontier Province	1,411	47,056	•••	9,633	100	55,
Ajmer		•••		14,112	•••	14,11%
Baluohician		•••		£3,619	405	34,024
Andamans	0,003	4,271	1,415	***	4,268	16,058
Madras	48,657	27,313	1,829	35,705	7,433	1,20,037
Bombay	1,01,502	1,51,871	54,493	8,61,972	39,160	12,14,988
TOTAT, 1973-54	3,97,257	14,40,019	1,06,857	30,05,475	17,11,195	66,60,803
,, 1932-83	4, 19,137	15,41,716	80,603	90,03,718	10,96,958	67,62,153
,, 1931-33	4,20,591	14,85,400	88,626	24,74,014	17,46,255	62,11,698
,, 1000-31	5,33,058	14,90,101	1,00,034	26,36,041	15,30,752	¢0,00,58¢
" 1929-an	4,83,855	12,75,035	,1,85,132	-	4,73,193	45,14,061

4.5

STATEMENT XVII.

Details of revenue and expenditure for the financial year 1933-34. (E) cluding Burm's and Federated Shan States)

			Rs.	Percentare of each stem to total.
(a) T	Yood		1,70,12,325	G4 7
i 1 '	Luor forest produce .		34,62,619	13 2
(c) I	orost stamps and Commutat	non fees for forest produce	86,768	- 3
Gross Receipts (d) G	mang		30,73,291	11.7
(o) E	cvenue from forests not ma	naged by Government	6,24,922	2 1
Lon	• snonniloszil		20,21,331	77
		Total Revenue	2,62,61,159	100 0
	_	5. (i) Samer as Shaff		
{	ĺ	(t) Superior Staff		
	(a) Administ tion	(111) Office Establishments (including Con-	1,20,35,173	59 9
	{	targonoles).		03.7
		(1) Extraction	41,25,849	20 G 5 2
		(2) Roads and Buildings	10,52,530 £ 11,642	11
• []	{	(5) Fire protection	7,12,386	37
• !!	(b) Worlang	(5) Live-stoel, stores and plant.	· 2,03,277	15
Rec	miring -	(6) Working-Plans	2,50,045	12
, !!		(7) Rent for leased forcets	1,68,229	-9
11		(S) Miscellaneons	1,57,207	23
	(c) Expendit	are on realization of revenue from forests not d by Government.	9,165	-0
-	(d) Forcet & B Institut	Solence and Education (including all "A" and clarges of Forest Callego and Restarch co).	7,20,591	S 6
E-penditure .		Total .	2,00,59,172	198 0
11	(e) Forest Se	i	100	22
	B (f) Forest Si	· · ·	92,117 51,456	50_
{ E-	traordinary (g) Forest D	i	51,456 7,50,471	770
	i	o-s by Exchange on English transcetions, interest tal outlay, etc Capital charges transferred to 8-A	1,60,052	158
	(4/			_
-		Total	19,14,199	100 0
.		->, ,		
		GRAND TOTAL OF EXPENDITURE	2,11,02,391	-
	-		<u>.</u>	
· · · · .				
		Net Revenue	51,78,769	-
	14 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a	(Excluding Burma and l'ederated Shan Stetes)		

STATEMENT XVII(a).

Details of revenue and expenditure for the financial year 1933-34.

(Burms and Federated Shan States only)

		· · · · · · · · · · · · · · · · · · ·	
		R9.	Percentage of each item to total.
ı	(a) Wood	75,00,023	81·S
	(b) Minor forest produce	5,02,421	60
Gross Receipts	(c) Grazing	21,926	·3
Mode Weether			
	(d) Revenue from forests not managed by Government	1,54,514	1.8
•	(c) Miscolinnous	6,30,667	7:1
	Total Revenue .	68,39,651	100 0
,	C (A Superior State		
	(i) Superior Staff		
	(a) Administra- (11) Subordinate Staff (including Rangers, Foresters and Guards).	47,68,056	78 3
	tion. (1:1' Office Establishments (including Contingencies).		
ļ	(1) Extraction	<i>5</i> ,91,557	97
	(2) Roads and Buildings	1,96,772	3 2
	(3) Fire protection	27,633	' 5
	(1) Live-stock, rtores and plant	1,88,878	3 1
	(5) Working Plane, revision and mainten-	}	***
	Recurring . (b) Working (6) Maintenance of boundaries .	4,495	1 .
	(7) Regeneration and improvement .	1,02,777	1.7
•	(6) Bilvioultural Research	•••	•••
	(9) Utilisation Research	***	414
	(10) Other Works		***
	(11) Miscellaneous	2,08,080	3.7
	(12) Losses of Government commercial undertakings		
E-pendituro	. Total	60,91,64S	100 0
	(c) Forcet Survey	660	-#
	B (d) Gain or loss by Exchange on English transactions, interest on capital outlay, etc	4,20,601	9S 6
	(e) Share of capital charges transferred to 8-A	5,816	- 1.2
	Total .	4,35,616	103:0
	GEAND TOTAL OF EXPENDITURE .	, 65,27,464	144
	1)		
			1
	Ret Reverse	20,13,630	

 $\label{eq:STATB} \textbf{Summary of revenue and expenditure of the}$

							
Budget Heads.	Imperial	Bengal	United Provinces	Punjab	Burma (includes Federated Shan States and back- ward (tracts)	Bihar and Oriera (includes Angul Division)	Arsam.
1	2	8	4	5	6	7	8
	Rs.	Es.	Rs	Rs	Es.	Re	Rq
REVENUE							
I —Timber and other produce removed from the forests by Government agency		2,16,938	5,11,770	10,41,676	11,97,799	4,369	1,39,612
II.—Timber and other produce removed from the forests by consumers or purchasors	••	11,83,667	36,63,850	6,05,600	68,56,574	6,29,775	11,27,458
III -Drift and wasf wood and confiscated forest produce	•	3,391	1,703	29,530	1,67,213	872	15,345
1V —Revenue from forests not managed by Government.	•••	***	40,643	902	1,54,514	***	44,665
V.—Miscellancous		1,12,394	8,18,454	2,72,000	4,56,049	52,587	1,20,556
Deduct—Refunds - • • •		-13,829	-22,539	1,532	12,595	-2,279	·
TOTAL BEVINUE .		15,02,561	45,16,911	19,48,176	69,39,554	6,84,823	11,57,198
EXPENDITURE.]			
A —CONSERVANCE. MAINTENANCE AND RE- GENERATION							
I.—Timber and other produce romeyed from the forests by Government Agency		1,86,292	2,92,077	1,03,304	4,66,703	1,095	61,261
II —Timber and other produce removed from the forests by consumers or parchasers	•••	1,38,515	1,26,017	2,507	96,045	20,021	57,733
III.—Drift and waif wood and confiscated forest produce.	•••	1,615	380	10,19\$	31,809	68	458
IV —Revenue from forests not managed by Government	••	•••	9,165	•••	181		•••
V.—Rent of leased forests and payments to shareholders in forests managed by Gov- ernment	•••	***	6,595	1,09,693	•	••	11,974
VI —Live-stock, stores, tools and plant	•••	59,753	47,410	4 005	1,88,878	3,526	19,036
VII -Communications and buildings		88,895	2,12,107	17,723	1,96,772	64,631	88,026
VIII —Demarcation, amprovements and exten- sion of forests	•	85,250	2,59,017	1,13,426	1,79,548	29,258	39,216
IX —Mucollaneous		15,629	10,553	—16,095	1,62,012	13,916	38,092
Work Advances		103	<u></u>		-2,646		
Total A Cons. reancy, Maintenance and Regeneration.	•	5,27,252	9,62,821	6,71,759	13,19,297	1,32,598	3,14,819
B —Establishments						[
Total B — Establishments (includes salaries, travelling and other allowances and contingencies)	16,667	8,24,421	16,12,777	9,39,290	47,68,056	4,71,319	7,81,154
C.—Total gain or loss by exchange on English transactions, interest on capital outlay, etc.		67,108	72,547	1,60,705	4,29,601	47,116	67,570
D -lotal share of Capital charges transferred to 8-A (s.c., Capital charges met from Revenue).		22,009	6,975	3,43,153	10,510	17,128	83,117
H.—Total Capital Ontlay under 52-A (1 c , not transierred to E-A)	L				<u>.</u>		
GEARD TOTAL OF EXPENDITURE (Excluding expenditure under E)	46,667	14,12,163	26,51,580	- 21,37,940	65,27,461	6,68,071	11,97,019
Eveluding experientare under C1.		CO,578	16,62,331	- ••	23 12,090	16,752	2 00,179
Dirior	46 567			1,89,764	- ;		•••
Proportion of surplus to gross revenue.	***	7-210	1-24	1,00,709	1-28	1 41	1 56
Net revenue per square mile of forest area under control of Porest Department	944 3 1	57	855 3	•	12-6	. 55	12 1
		on firmuna of C	<u>'</u>		<u>'</u>	<u>i</u>	

(a) Includes figures of General Direction Division.

MENT XVIII. Forest Department in India for the financial year 1933-34.

Contral Provinces and Borar	Coorg.	North-West Frontier Province.	Aymer	Baluelustan.	Andamana	Forest College and Research Institute.	Madras	Bombay	Toisl.
9	10	11	13	13	11	15	16	17	18
Rs.	Re	Rs.	Re	Rs	Rs.	Rs	Rs.	Rq.	Rs.
13,99,580	3,90,623	2,01,035	43,172	4,019	, 13,75,943		12,83,6~3	14,78,992	02 03,148
26,42,019	32,560	1,91,019	35,118	5,127	1,261		17,81,266	35,80,212	2,23,45,588
1,512		5,187		50	•		11,638	2,913	2,58,833
1,745		11,302		7,693	•••	***	4,85 507	17,868	7,67,932
3,59,756	9,816	23,177	9,968	5,112	22,017	13,055	3,09,507	3,61,050	25,44,192
_6,023	677	753			-610	h11	-17,183	-10,975	<u>—89,825</u>
41,03,011	5,82,811	4,35,260	83,278	23,840	11,01,004	13,055	89,43,068	51,30,000	3,51,20,713
5,42,217	40,512	1,14,951	23,595	1,058	6,36,731		3,13,519	C,25,8C1	38,69 666
1,55,700	7	1,390	467	269	673		1,67,107	50,737	8,17,271
79	***	2,760	***						47,863
	•••								9,846
8,818	•••	23,477	•••			•••		27,672	1,68,229
21,013	8,22)	1,630	201	, 09	15,10:	1,550	25,141	5,011	4 70,105
1,72,533	9,042	26,573	8,17:	3 615	5,22	597	1,63,780	1,20,711	12,05,857
1,50,723	20,270	1	2,11	g 1,719	12,81	o	1,21,39.	1,10,110	11,40,120
1,25,457	1,519		30	0 41	31	3 61,378	39,700	88, 171	4,96,60
C, G53		101	1,27	8	15,62	<u>s</u>		-\ <u>-</u>	-27,50
11,73.072	80,509	-	80,99	8 4,23	0 8,58,59	3 66,523	9,29,59	9,78,935	82,50,52
19,52,760	1,06,663	1,85,694	81,43	30,71	8 1,85,09	5,24,80	27,30,85	21,46,107	1,73,47,82
2,14,823	12,614				,	2,05	p —13	3 97,343	12,19,10
2,724	22,02				13,01	73,2 2,61	5 2,51,03	63,282	8,12,6
			İ	.,		. 1,69		*,*	(b)17,0
15,185		4 , 3,09,670	-	72 31,0	18 10,90,7	_	-		2,76,29,8
33,13,309	_	_	_		., 19, 2,	035	42,7	28 21,43,72	74,00,8
10,62,612	2,20,01	101 35		12,0	(lis ·	,	100	111	
1:41	1 1	10 . 1, 11.	(,		. 11		1 · 17		
51*		101	5 18	1.0	iš	0	٠- ـ	1.(121.	1

STATE

Revenue of the Forest Department throughout India for the 35 financial years

(I) REVE

Province	Average of 1862-70 to 1873-71	Average of 1871-75 to 1872-79.	Average of 1579-80 to 1683 84	Average of 1854-85 to 1858-89	Average of 1889 90 to 1893-01	Avernge of 1691-95 to 1695-99	1699-1900	1000-01.	1901-62.	1002-13	1903-01	1994-95.
			Rs	Rs	Re	Re	Re	Rg	Rs	Rs	Ra	R.
	Re	Ra	25,129	10,866	5,117	9,688	000,0	3,463	3,454	3,659	7, 155	3,743
Impered	2,175	31,717			7,66,431		11,38,910	3,839	12,92,237	12,56,247	10,65,523	11,07,472
Bengal*	1,64,863	2,89,772	6,05,578	6,31,334	16,69,190		1 ' '	}	17,15,508	20,25,324	23,50 116	23,97,316
United Provinces -	12,59,979	12,21,650	11,74,615	14 63,525				13,50,812	11,47,533	15,86,108		15,74,413
Panjab · · ·	G,87,123	7,05,558	7,37,833	9,11,950	-,,-	11,89,510	11,00,770		53 73,933	•	82,68,535	1
Burma	8,04,203	11,20,175	10,68,355	25,01,318	49,78,654	63,15,512	78,12,050	80,51,114	03 10,600	01,00 000		
Bihar and Orissa			••		400	_	•		. 10.000		בחק בק מ	6.75
_	1	1,01,098	1,91,887	2,32,055	3,82,750	4,15,912	5,68,100	5,49,521	5,12,963	5,80,200	6,75,702	1
Assamt Central Provinces and	7,41,879	9,79,936	12,51,092	14,11,163	16,98,505	10,75,958	12,97,120	12,65,611	15,79,116	16,84,423	19,05 002	. 2),13,429 ; i
Eerar	1	,		7 10 004	1,53,136	1,33,450	1,62,410	1,37,596	1,70,242	1,90,730	2,24,031	1,17,057
Cocrg · · ·	92,191	75,867	1,03,179	1,13,021	1,55,150	1,00,100	1,00,110	2,01,017	13,012	1,01,123	1,01,633	20,991
North-West Frontier			•	ļ			1		10,012	3,553,==5	1	
Province.	i	1,152	4,478	11,659	15,233	14,165	10,270	10,646	6,893	9,736	13 654	17,27
Values	65	1,102	8,550		17,993	15,330	17,080	16,956	14,712	19,836	18,361	22,555
Poluchistan			31,81	1	2,79,025	2,54,43	. }	2,77,556	2,66,993	8,26,035	4,02 351	L 6,29,788
Andamons	. 5,467	4,425	33,02	57,033	1,630			1 .	3 515	3,252	2,133	3,557
Forest College and Re-			•••	1 221	1,000	, ,,,,,	2,22	1				
Fearch Institute	1		ļ			30	0 42	0 327	473	3 031	43	1
Forest Surveys	s · ·	17	13	206	C68	30	م ا	0 0-1				Ì
(Imperial).	6,03,243	5,69,389	8,06,02	13.00,481	17,14 325	31,10,99	3 23,02,23	0 23,19,170	25,43,420	26 13,619	23,57,72	7 ¦25,27 216
Madras			16,93,81			30,46,21	4 24,15,20	0 20,61,520	23,79,720	23,29,150	;	o ¦30,20,558
Bombay	11,77,673	12,23,001	1 -			·	_	-	-	-	-	
GEAND TOTAL	. 56,20,061	66,60,397	58,17,21	3 1,16,68.14	(S <mark>'1,59,19,0</mark> 1	14 1,77,15,7	56,1,96,09,6	510 1,97,70,49	13,1,78,33,71	151,14,71,8	37,22,10,1	141 2,11,20,00
Pr	covince.	1917-18	1	915-19	1919-20	1920	-21	1021-22 '	1922-23	192	3 24.	1021-25
		Rs.	_ -	Rs.	Rs	_i					4	Its
		41		7			Rs	Rs	R		Rs	
T		1 51	520 1	97.488				Rs 27,803	R= 26,5	50	Rs 20,571	39,10
Imperial .		.1	720	27,488	21,52	, :	57,122	27,803		· 1	Ì	39,10
Dengel • •	• • •	13,76,	260 1	9,44,104	21,52 20,51,23	7 ·21,	51,123 51,778	27,803 18,98,979	26,5	26 92	20,571	39,10. 21,75 529
_	•	13,76,	697 C	9,44,104 6,37,166	21,52° 20,51,23° 71,71,05	7 ·21,	57,122 51,773 79,781	27,803 18,98,979 86,44,677	25,5 23,11,2	26 <u>92</u> 03 73	29,571	30,10.1 21,75 529 60,21,957 67,27,81
Beugal • • United Provinces Punjab • • •	• • •	13,76,9 61,16, 21,17,	960 1 697 6 776 :	9,44,104 56,37,166 21,54,178	21,52 20,51,23 71,71,05 38,45 87	7 ·21, 1 ·27, 1 · 57, 8 · 03,	57,122 \$1,763 79,781 05,058	27,803 18,98,979 86,44,677 19,01,178	26,5 23,11,2 83 72,8	26 22 00 73 13	29,571 61 515 56,029	39,10.7 21,77, 529 69,21,957 67,27,511
Engel United Provinces Punjub Burnia		13,76, 61,16, 21,17, 1,23,61,	960 1 697 6 776 1	9,44,104 66,37,166 21,54,178 25,23,852	21,52 20,51,20 71,71,05 38,45 67 1,64,05,26	7 ·21, 7 ·21, 1 ·87, 8 ·33, 3 ·1,59,	57,123 51,763 79,781 05,055 75,060	27,803 19,98,979 86,44,677 19,91,178 2,21,16,787	25,5 23,11,2 23,72,5 24,44 1 1,69,43,0	26 <u>92</u> 00 73 43 43 72 1,94	29,571 61 515 56,029 ,86,773	30,10,1 21,75 529 60,21,557 57,07,511 (a) 1,96 77,52
Deugal • • United Provinces Punjab • • •		10,76, 61,16, 21,17, 1,23,61, 7,53,	000 1 697 6 776 1 499 1, 625	9,44,104 66,37,166 21,51,178 25,23,852 9 44,763	21,52° 20,51,20° 71,71,05 38,45 67 1,64,01,26 8,17,15	7 21, 7 21, 4 87, 8 03, 2 1,99, 8 8.	57,123 51,768 59,781 65,658 75,660	27,803 15,98,979 56,44,677 19,91,178 2,21,16,767 9,00,678	25,5 23,11,2 83,72,8 34,44 1,69,43,0	26 22 00 73 43 43 44,1 27 10	29,571 61 515 56,629 ,86,-m3 (a)	39,10.1 21,75 529 69,21,951 07,07,511 1,96 77,62 10,70,50
Engel United Provinces Panjub Burra Burra Bibar and Onesa Assara		19,76, 61,16, 21,17, 1,23,61, 7,53,	960 1 697 6 776 1 499 1, 625	9,44,104 66,37,166 61,51,178 67,23,852 9,44,763 14,92,718	21,52° 20,51,20° 71,71,05 38,45 87 1,64,65,26 6,17,45	7 21,1 1 87, 8 8 33, 33, 1,59, 8 8, 41 15	57,123 51,763 59,781 65,650 75,660 10,662 21,944	27,803 15,98,270 86,44,677 19,91,178 2,21,16,767 9,00,678 12,97,027	25,5 23,11,2 83,72,8 34,44,4 1,69,43,0 8,81,0	26 22 00 73 43 13 72 1,04 70 70 10	29,571 61 515 56,029 ,86,173 (a) 12,799 ,22,055	39,10,1 21,75 529 69,21,957 37,07,517 (a) 1,96 77,52 10,70,26 21,78,75
United Provinces Punjub Burra	d Burar	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66	960 1 697 6 776 1 190 1, 625 956	9,44,104 6,37,166 21,54,178 25,23,852 9,44,763 14,92,718 34,63,422	21,32° 20,51,20° 71,71,05 38,45 67 1,64,31,26 6,17,15 14,51,10 15,46,73	7 21, 7 21, 1 87, 8 03, 2 1,99, 8 8, 9 15	57,122 51,763 59,781 65,050 75,060 10,002 61,044 64,726	27,803 18,98,970 86,44,677 19,91,178 2,21,16,767 9,00,678 12,97,027 41,83,693	25,5 23,11,2 83,72,8 34,44 1,69,43,0 6,81,9 17,13,8 47,03,8	26 22 00 73 43 43 72 1,94 01 70 53 19	29,571 61,515 56,629 ,86,639 ,22,799 ,22,799 ,23,655 ,71,292 ,04,923	89,10J 21,73 529 69,21,957 57,07,011 1,96 77,62 10,70,26 21,78,73 52,02,03
Engal United Provinces Panjub Burra Enbrand Onesa	nd Burar	19,76, 61,16, 21,17, 1,23,61, 7,53,	960 1 697 6 776 1 190 1, 625 956	9,44,104 66,37,166 61,51,178 67,23,852 9,44,763 14,92,718	21,52° 20,51,20° 71,71,05 38,45 87 1,64,05,26 6,17,15 14,51,50 15,46,73 9 48,00°	7 21,1 1 87,8 8 33, 3 1,99,8 8 8,91 15 23 43	57,123 51,768 79,781 05,050 75,060 10,002 01,044 94,726 94,726	27,803 18,98,979 86,45,677 19,91,178 2,21,16,767 9,00,673 12,97,027 41,83,693 7,03,731	25,5 23,11,2 23,71,5 24,44,4 1,69,43,5 6,81,0 17,13,6 47,03,6	25 22 00 73 43 13 72 1,04 70 10 53 19 70 51	29,571 61 515 56,629 ,86,173 (a) 12,799 ,22,755 ,71 522 ,04 723	39,107 21,75 329 69,21,957 67,07,577 1,96 77,62 10,70,26 21,78,75 50,92,03 6,85,93
Engel United Provinces Panjub Burwh Burwh Buhrand Onesa Assan Central Provinces an		19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 4,58	960 1 697 6 776 1 190 1, 625 ,956 ,493	9,44,104 6,37,166 21,54,178 25,23,852 9,44,763 14,92,718 34,63,422	21,52° 20,51,20° 71,71,05 38,45 67, 1,64,51,26 6,17,15 14,51,50 15,46,73 9 48,00 1,62 54	7 21, 21, 37, 8 33, 1,59, 8 8, 15 43 43 15 15 15	57,122 51,763 79,781 05,050 75,060 10,062 01,044 ,94,726 ,27,751 ,19,779	27,803 18,98,979 86,44,677 19,91,178 2,21,14,787 9,00,878 12,97,027 41,83,693 7,03,731 5,71,653	25,5 23,11,2 83,72,8 34,14,4 1,69,43,1 6,81,9 17,13,8 47,03,1 9,42,1	26 22 00 73 43 13 72 1,94 93 19 939 51 559 51	29,571 61 515 56,629 ,86,773 (2)799 ,23,055 ,71 292 ,04 923 ,04 923	39,10J 21,73 329 69,21,957 37,07,071 1,96 77,62 10,70,66 21,78,73 52,02,03 6,85,00 6 69,76
Engal United Provinces Panjub Burri Ether and Onesa Assau Central Provinces an		19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66 4 58	960 1 697 6 776 1 190 1, 625 ,956 ,493	9,44,104 66,37,166 21,54,178 25,23,852 9,44,763 14,62,718 34,62,718 34,63,422 6,77,573	21,52° 20,51,20° 71,71,05 38,45 87 1,64,05,26 6,17,15 14,51,50 15,46,73 9 48,00°	7 21, 21, 37, 8 33, 1,59, 8 8, 15 43 43 15 15 15	57,122 51,768 59,781 65,650 75,660 10,662 01,044 ,94,526 ,27,751 ,19,779 18,112	27,803 19,98,979 86,45,677 19,91,178 2,91,16,767 9,00,678 12,97,027 41,83,693 7,03,731 5,71,653 40,812	25,5 23,11,2 83,72,8 34,44,4 1,69,43,1 8,81,9 17,13,8 47,03,9 9,42,0 7,27,4	25 22 00 73 43 13 72 1,04 00 70 59 19 79 51 050 1	29,571 61 515 56,629 ,86,773 ,22,799 ,22,755 ,71 292 ,04 750 ,00,017 ,553,032 ,553,032	39,10.7 21,75 529 69,21,957 67,07,511 1,96 77,52 10,70,26 21,78,75 50,02,03 6,68,00 67,06
Dengal United Provinces Punjab Burkh Buhrand Onesa Assan Central Provinces an Coorr		19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 4 58 3,07	960 1 697 6 776 1 190 1, 625 , 956 , 493 , 673 ,	9,44,104 6,37,166 21,54,178 25,23,852 9,44,763 14,62,718 34,63,422 6,77,973 3,81,722	21,52° 20,51,20° 71,71,05 38,45 67, 1,64,51,26 6,17,15 14,51,50 15,46,73 9 48,00 1,62 54	7	57,122 51,763 79,781 05,050 75,060 10,062 01,044 ,94,726 ,27,751 ,19,779	27,803 15,98,279 56,44,677 19,91,178 2,21,16,787 9,00,573 12,07,027 41,83,693 7,03,791 5,71,653 40,812 17,229	25,5 23,11,2 83,72,8 34,44,4 1,69,43,0 6,81,9 47,13,8 47,03,9 9,42,0 7,27,0 43,0	25 22 03 73 43 13 72 1,94 101 10 1059 19 79 51 250 1	29,571 61 515 56,629 ,86,173 (a) ,71,799 ,71,792 ,04,753 (50,017 (50,017 (50,017 (50,017)	39,10.7 21,75 529 69,21,957 67,07,61 1,96 77,62 10,70,00 21,78,75 52,92,03 6,85,93 6,95,66 67,06
Engel United Provinces Panjob Bure's Eiber and Onesa Assara Central Provinces an Coore SortE-West Fronne Ajmer		19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66 4 58 3,37	960 1 697 6 776 1 190 1, 625 , 956 , 493 , 711 , 733 ,	9,44,104 66,37,166 21,54,178 25,25,852 9,44,763 14,92,718 34,85,422 6,77,973 8,81,722 37,250	21,52° 20,51,20° 71,71,05 38,45 67° 1,64,05,26 6,17,15 14,51,50° 15,46,73 9 (S,0) 1,62 54	7 21, 21, 21, 25, 23 1,59, 25 15 15 15 15 15 15 15 15 15 15 15 15 15	57,122 51,768 59,781 65,650 75,660 10,662 01,044 ,94,526 ,27,751 ,19,779 18,112	27,803 18,98,979 86,44,677 19,91,178 2,21,16,767 9,00,678 12,97,027 41,83,693 7,03,791 5,71,653 40,812 17,229 5,50,093	25,5 23,11,2 83,72,8 34,44,4 1,69,43,9 17,13,8 47,03,9 9,12,0 7,27,0 43,0 11,0	26 22 00 73 43 13 72 1,94 00 70 559 19 779 51 553 3 553 3 578	29,571 61 515 56,629 ,86,773 ,71,799 ,22,765 ,71,792 ,04,753 ,04,753 ,04,753 ,04,753 ,5,53,332 ,5,53,332 ,5,11,352	39,10.7 21,75 529 69,21,957 37,07,517 1,96 77,52 10,70,56 21,78,75 52,92,03 6,68,70 67,06 29,55 7,25,73
Bengal United Provinces Punjab Burna Burna Biharend Onesa Assam Central Provinces an Coorr SortE-West Fronce Ajmer Balachistan Andensan	r Province	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66, 4 58 3,07, 27,27	960 1 697 6 776 1 190 1, 625 , 956 , 493 , 711 , 733 ,	9,44,104 6,37,166 21,54,178 25,25,852 9,44,763 14,92,718 34,85,422 6,77,573 3,81,722 37,250 25,405 11,51,383	21,52° 20,51,20° 71,71,05 38,45 67, 1,64,65,26 6,17,15 14,51,50° 15,40,72 9 (S,0) 1,62° 54 ,21°00 17,64	7 21, 21, 21, 21, 23, 23, 24, 23, 24, 24, 25, 25, 26, 27, 27, 26, 27, 27, 28, 28, 29, 29, 29, 29, 29, 29, 29, 29, 29, 29	57,122 51,763 79,781 05,050 75,060 10,002 01,044 ,94,726 ,27,051 ,19,779 18,112 22,544	27,803 18,98,979 86,45,677 19,91,178 2,21,16,787 9,00,673 12,97,027 41,83,693 7,03,791 5,71,653 40,812 17,229 5,50,093 24,117	25,5 23,11,2 83,72,8 34,44,4 1,69,43,0 6,81,9 47,13,8 47,03,9 9,42,0 7,27,0 43,0	26 22 00 73 43 13 72 1,94 00 70 559 19 779 51 553 3 553 3 578	29,571 61 515 56,629 ,86,173 (a) ,71,799 ,71,792 ,04,753 (50,017 (50,017 (50,017 (50,017)	30,100 21,75 329 60,21,957 37,27,313
Eengal United Provinces Punjab Burral Burral Buhrrand Onesa Assara Control Provinces or Coore NortE-West Fronce Ajmer Bulachistan Audensus	r Province	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66, 4 58 3,07, 27,27	960 1 697 6 776 1 90 1 625 6 ,056 4 ,493 6 ,673 7 ,711 7 ,713 7 ,626 7	9,44,104 16,37,166 21,54,178 27,23,852 9,44,763 14,92,718 34,83,422 6,77,573 3,81,722 37,250 -25,403	21,32° 20,51,20° 71,71,05 38,45 67 1,64,31,26 6,17,15 14,51,50° 15,46,73° 9 48,00° 1,60° 54 _21 90° 17,16 8,00,7	7 21, 21, 21, 21, 23, 23, 24, 23, 24, 24, 25, 25, 26, 27, 27, 26, 27, 27, 28, 28, 29, 29, 29, 29, 29, 29, 29, 29, 29, 29	57,122 51,763 79,781 05,050 75,060 10,002 01,044 ,94,726 ,27,751 ,19,779 18,112 92,544 ,23,374	27,803 18,98,979 86,44,677 19,91,178 2,21,16,767 9,00,678 12,97,027 41,83,693 7,03,791 5,71,653 40,812 17,229 5,50,093	25,5 23,11,2 83,72,8 34,44,4 1,69,43,0 17,13,6 47,03,0 9,42,0 7,27,0 43,0 11,0 5,68,0	25 22 03 73 43 13 72 1,94 101 10 1059 19 779 51 1053 15 1057 15 1057 15 1057 15 1057 15	29,571 61 515 56,629 ,86 -m3 ,(a) ,22,799 ,23,765 ,71 292 ,04 923 ,04 923 ,553,932 ,553,932 ,553,122 ,22,163 ,511,352 ,167,379	39,10J 21,73 529 69,21,957 37,07,011 1,26 77,52 10,70,26 21,78,73 52,32,03 6,85,93 6,9,76 67,06 29,55 7,95,75
Bengal United Provinces Panjab Burral Burral Burral Burral Central Provinces an Coore NortE-West Fronce Ajmer Bulachistan Audensis Forest College at Toront Surveys (Im	r Province	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66 4 58 3,07	960 1 697 6 776 1 90 1 625 6 ,056 4 ,493 6 ,673 7 ,711 7 ,713 7 ,626 7	9,44,104 6,37,166 21,54,178 25,25,852 9,44,763 14,92,718 34,85,422 6,77,573 3,81,722 37,250 25,405 11,51,383	21,32° 20,51,20° 71,71,05 38,45 67 1,64,31,26 6,17,15 14,51,50° 15,46,73° 9 48,00° 1,60° 54 _21 90° 17,16 8,00,7	7 21, 21, 37, 8 33, 1,59, 8 15, 43 15, 15, 17, 6	57,122 51,763 79,781 05,050 75,060 10,002 01,044 ,94,726 ,27,751 ,19,779 18,112 92,544 ,23,374	27,803 18,98,979 86,45,677 19,91,178 2,21,16,787 9,00,673 12,97,027 41,83,693 7,03,791 5,71,653 40,812 17,229 5,50,093 24,117	25,5 23,11,2 83,72,8 34,44,4 1,69,43,1 17,13,8 47,03,1 9,42,1 43,1 11,1 5,68,1 1,84,1	25 22 00 73 43 13 72 1,04 00 70 59 19 70 51 053 5 775 5 775 775 7763 5	29,571 61 515 56,629 ,86,773 ,22,799 ,22,765 ,71 222 ,04 723 ,04 723 ,553,332 ,553,332 ,511,352 ,167,379	39,10.7 21,75 529 69,21,957 67,07,517 1,96 77,62 21,78,75 52,02,03 6,68,00 67,06 29,36 7,25,75 1,00 57
Engel United Provinces Panjob Burro Entrand Onesa Assara Central Provinces an Coorr North-West Fronce Ajmer Balachistan Audenses Forcet College at Toron Sarroys (Im	r Province	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66, 4 58 3,37 27	960 697 776 199 1,025 ,036 ,493 ,673 ,711 1,626 2,022	9,44,104 16,37,166 21,51,178 25,25,852 9,44,763 14,92,718 34,85,422 6,77,573 3,81,722 37,250 25,403 11,51,383 11,51,383 47,91,169	21,52° 20,51,20° 71,71,05 38,45 67, 1,64,51,26 6,17,15 14,51,50° 15,46,73° 9 (\$,00° 1,60° 54 ,31° 0; 17,60° 8,00,7° 8,00,7°	7	57,122 51,763 59,781 65,050 75,060 75,060 10,062 61,044 64,526 627,751 19,779 18,112 22,544 12,648 	27,803 18,98,970 86,44,677 19,91,178 2,21,16,767 9,00,678 12,97,927 41,83,693 7,33,731 5,71,653 40,812 17,220 5,50,098 24,117	25,5 23,11,2 83,72,8 34,44,4 1,69,43,0 17,13,6 47,03,0 9,42,0 7,27,0 43,0 11,0 5,68,0	25 22 00 73 43 13 72 1,04 00 70 59 19 70 51 053 5 775 5 775 775 7763 5	29,571 61 515 56,629 ,86 -m3 ,(a) ,22,799 ,23,765 ,71 292 ,04 923 ,04 923 ,553,932 ,553,932 ,553,122 ,22,163 ,511,352 ,167,379	39,10.7 21,75 529 69,21,957 67,07,517 1,96 77,62 21,78,75 52,02,03 6,68,00 67,06 29,36 7,25,75 1,00 57
Bengal United Provinces Panjab Burral Burral Buhrrand Onesa Assam Central Provinces an Coore North-West Fronce Ajmer Balachistan Andemsas Forest College at Forest Sarrays (Im	r Province	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66, 4 58 3,37 27	960 697 776 199 1,025 ,036 ,493 ,673 ,711 1,626 2,022	9,44,104 16,37,166 21,51,178 17,23,852 9,44,763 14,92,718 34,83,422 6,77,573 3,81,722 37,250 25,103 11,51,383 11,51,383 47,01,160 1,04,94,031	21,52° 20,51,20° 71,71,05° 38,45° 67.15° 1,64,51,26° 6,17,15° 15,46,73° 9 (8,00° 1,61° 54° 21° 10° 17,40° 8,00,7° 17,40° 8,00,7° 17,40° 8,00,7°	7	57,122 51,763 51,763 50,751 05,050 55,060 50,744 94,526 92,751 19,779 18,112 22,544 ,21,374 12,648 	27,803 19,98,979 86,45,677 19,91,178 2,91,16,767 9,00,678 12,97,927 41,83,693 7,03,791 5,71,653 40,812 17,229 5,53,093 24,117	25,5 23,11,2 83,72,8 34,44,4 1,69,43,1 17,13,8 47,03,1 9,42,1 43,1 11,1 5,68,1 1,84,1	25 22 00 73 43 13 72 1,04 00 70 59 19 70 51 053 5 775 5 775 775 7763 5	29,571 61 515 56,629 ,86,773 ,22,799 ,22,765 ,71 222 ,04 723 ,04 723 ,553,332 ,553,332 ,511,352 ,167,379	39,10.7 21,75 529 69,21,657 37,07,511 1,96 77,62: 10,70,263 21,72,73: 52,02,03 6,83,00 6 09,76 97,55
Engal United Provinces Panjob Burth Entrand Onesa Assara Central Provinces an Coorr North-West Fronce Ajmer Balachistan Andensas Forcet College at Toront Sarrays (Im	r Province	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66, 4 58 3,37 27	960 697 776 199 1,025 ,036 ,493 ,673 ,711 ,733 ,734 ,734 ,626 ,202	9,44,104 16,37,166 21,51,178 17,23,852 9,44,763 14,92,718 34,83,422 6,77,573 3,81,722 37,250 25,103 11,51,383 11,51,383 47,01,160 1,74,91,01	21,52° 20,51,20° 71,71,05° 38,45° 67.15° 1,64,51,26° 6,17,15° 15,46,73° 9 (8,00° 1,61° 54° 21° 10° 17,40° 8,00,7° 17,40° 8,00,7° 17,40° 8,00,7°	7	57,122 51,763 51,763 50,751 05,050 55,060 50,744 94,526 92,751 19,779 18,112 22,544 ,21,374 12,648 	27,803 19,98,979 86,45,677 19,91,178 2,91,16,767 9,00,678 12,97,927 41,83,693 7,03,791 5,71,653 40,812 17,229 5,53,093 24,117	25,5 23,11,2 83,72,8 34,44,4 1,69,43,1 17,13,8 47,03,1 9,42,1 43,1 11,1 5,68,1 1,84,1	25 22 00 73 43 13 72 1,04 00 70 59 19 70 51 053 5 775 5 775 775 7763 5	29,571 61 515 56,629 ,86,773 ,22,799 ,22,765 ,71 222 ,04 723 ,04 723 ,553,332 ,553,332 ,511,352 ,167,379	39,100 21,75 529 60,21,957 67,27,511 1,96 77,821 10,70,261 21,78,75 52,92,03 6,85,03 6,95,66 20,56 7,25,75 1,02 57
Engel United Provinces Punjob Buren Enhanced Onesa Assam Central Provinces an Coore North-West Fronne Ajmer Balnehisten Antiemans Freed College at Institut Forest Sarrays (Im	r Province	19,76, 61,16, 21,17, 1,23,61, 7,53, 13,09, 34,66 4,58 3,07 7,27	960 697 776 199 1,025 ,056 ,493 ,673 ,711 ,733 ,656 ,204 2,022	9,44,104 16,37,166 21,51,178 17,23,852 9,44,763 14,92,718 34,83,422 6,77,573 3,81,722 37,250 25,103 11,51,383 11,51,383 47,01,160 1,04,94,031	21,52° 20,51,20° 71,71,05° 38,45° 67.15° 1,64,51,26° 6,17,15° 15,46,73° 9 (8,00° 1,61° 54° 21° 10° 17,40° 8,00,7° 17,40° 8,00,7° 17,40° 8,00,7°	7 21, 21, 37, 8 33, 23 1, 59, 8 15 15 17 17 17 17 17 17 17 17 17 17 17 17 17	57,122 51,763 51,763 50,751 05,050 55,060 50,744 94,526 92,751 19,779 18,112 22,544 ,21,374 12,648 	27,803 19,98,979 86,45,677 19,91,178 2,91,16,767 9,00,678 12,97,927 41,83,693 7,03,791 5,71,653 40,812 17,229 5,53,093 24,117	25,5 23,11,2 83,72,8 34,44,4 1,69,43,1 17,13,8 47,03,1 9,42,1 43,1 11,1 5,68,1 1,84,1	25 22 00 73 43 43 72 1,04 70 10 539 19 779 51 553 7 778 778 778 778 7783	29,571 61 515 56,629 ,86,773 ,22,799 ,22,765 ,71 222 ,04 723 ,04 723 ,553,332 ,553,332 ,511,352 ,167,379	39,10. 21,73,525 69,21,957 57,07,537 1,96,77,62 10,70,26 21,78,73 50,92,63 6,68,00 67,06 20,35 7,25,73 1,02,37

* Include: figures up to 1910-11' for districts 'subsequently transferred to Binar and † It cludes figures up to 1910 ti for Flastern Bengal districts subsequently transferred (a) Includes Vederated Shan States.

MENT XIX.

from 1899-1900 to 1933-34 and the average of 6 quinquennial periods from 1869-70 to 1898-99.

NUE.

1905-06	1906-07.	1907-03	1908-09	1909 10.	1910-11.	- 1911-72	1912-13,	1913 14	1911-15	1015-16	1916-17.	Province.
Re	Re	Tis	Re		Re.	 R«	B9.	Ru	Rs	Rs.	Rs	
7,255	200	7,666	6,180	10,632	5,662	10,620	12,837	11,471	12,017	23,457	21.516	Imperial
11,18,512	10 65,850	11,97,650	11,81,615	10,80,610	11,67,441	11,22,112	16,00,601	15,16,111	13,01,496	1	13,38,779	Bongul #
1,83,128		21,09,715	21,73,106	23,01,161	23,78,430	30,16,160	35, 13,063		31,35,23	\	50,10,932	United Provincer.
17,61,653	16,05,251	13,57,119	12,65,793	10,72,673	12,17,953	13,10,077		13,51,913	13,35,005		16,87,801	Punjab
,03,29,669		£0,00,030	21,02,032		1,00,70,117			1,14,25,431	1 ' '		1,23,79,531	•
	••				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,07,213	1,33,955	4,91,735	5,17,779	5,17,727		Bihar and Orisea.
11,00,006	13,20,492	11,30,117	14,46,068	15,54,702	19,90,635	11,46,320	11,12,091	10 97,969	8,32,877	10,55,052	11,45,621	
23,49,131	21,01,159	22,00,128	20,78,162	ير,75,310 20,76,310	21,14,226	25,49,851	31,71,815	31,66,153	32,72,529	32,78.263	, , ,	Central Provinces and Berar.
2, 15, 119	2 45,0 0	2,71 756	2,21,330	2,13,120	2,70,050	2,95,170	2,51,652	3,29,227	1,09,237	4,19,155	4,67,311	Conrg.
1,29,529	1,63 214	2,34,190	1,52,782	1,73,305	2,05,312	1,58,171	2,37,183	2,66,711	2,39,013	1,66 815	2,10,995	No-th-West Frontier Province
15,002	15,315	27,801	27 615	23,100	37,816	26,361	30,596	83,507	31,170	23,415	21,272	•
21,151	21,105	21,520	23,305	15,729	23,212	27,117	20,159	19,958	19,058	21,637		Balnchistan.
5,82,511	6,07,047	2,10,622	2,02,018	2,50 177	1,16,773	5,22,160	4,49,925	4,45,611	3,39,219	4,31,761		Andamana.
3,0-11	1,579	6,137	4 G=0	1,000	1,090	5,550	7,011	5,800	8,017	6,995	8,199	Forest College and Re actrch Institute
•••				•								Porest Sarrey (Imperial)
29,67.601	33,40,660	1 03 01,500 1	35,57,419	11,78,381	39,60,511	41,66,021	11,12,173	43,00,020	89,11,537	11,06,835		
8=,54 993	P1 22, 181	35, 10,177	05,97,550	35,57,658	37,15,221	13,70,569	45,02,510	51,03,150	16,60,212	47,01,263	55,19,177	Bombay.
66,71,593	2,03,01 150	2 55,62,979	2,54,55,500	2,60 25,791	2 71,05,451	2,90,57,850	3,22,09,600	3,33,61,545	2,97,00,76	1 3,11,16 367	3,70,61,930	Grand Total.
7925-26	1	026 27	1027-24.	198-	29.	D20 Bu	1930 31.	193	1-32.	1932 53.	1932 81	Ptoriuca
R (R	۹	Tir.	-		Rs	Ra	T	14	Rs.	Rn,	
		ł		}	}	.			.		1.	Imporial
28 74,1	194 53	23 811	83512 480	31,18	3.7	m,52,078	21,12,01	1	01,179	15,11,717	15,02 56,	Bengal.
61,26,2	1	,71 205	72,01,183	į.	•	11,70 673	42,76 11	- 1	240_3	15,03,581	15,16 911	United Provinces
41,17,0	3	,07,731	51,91,217	1		31 57,771	23 81 59	('	11,200	10,52,000	19,19,176	Punjab
2,23,46,	1	03,050	2,21,07,675	(1.1)	1	(a 101,62°,301	1,58,65,5	0 1,10,	(1)	92,1 ',829 (a)	£5,34,55£	Burns,"
10,2F °		, 13,752	0.35,769	30,07	1	9,83,275	8,11,4		28,013	C.10,673	6,81,8.7	Dibar and Ori +1.
30,37.,	ì	,01,470	85,12,160	}	·	35,24,005	55'43'0,	1	27,075	16,10,407	14,57,100	Aprom
19,57,	1	1,21,976	50 TB,160	1		50,97,505	51,11,8	14 41,	17,111	12,00,108	11,06,011	Control Provinces at
5,05,0	- }	1,59,115	4,03,972	ł	,036	5,72,031	8,44,0,	.1 1.	F7,521	8,37,323	4,72,711	Berr. Coorg
7 11,5	į	,91,166	7 56,700	{	7,377	8,01,077	8,03,0	n2 } 7,	31,295	7, .9,710	F,75,2 0	North-West Front
72,	í	67,911	76 515	F:	7,103	n 1,503	. 95,2		Å7,597	20,425	88,258	Ajmer.
fa,	1	27,012	₽1,867	2	7,125	£9,807	1,01	77	27,246	23,013	55'810	Helvebislan.
8,92,6	023 1	1,70,863	11,19,062	15,0	J,705	20,00,613	. 12,87,5	96 -14	ni ra	14,57,150		1 -
1,05,0	657	2,71 025	1,16,167	1	1,001	1,03,863	83.0		20,003	T \$ 050	. j (4,0%	Resource and part Resource and part Portest Enriced ()
11 FA	500	C 1/2 7/13	ra is ibi			61,61,82h	1 62,67,0	57 42	51,872.	101.2011		al periols.
51,70. 75,10.		6,24,70a 6,56,420	72,01,09	- {	3,635	\$0,74,563 ************************************	1.50,037	· .	resti.	50,54,100	34,20,00	' } '
į.			- · · · · · · · · · · · · · · · · · · ·				i			ر و او ام والا مساسم الوجعدد		
	<u>-</u>	ł		<i>-</i> :}' -	: I		1.	7 7	100			•

Orman, to Depart.

STATE
Expenditure of the Forest Department throughout India for the 35 financial years
(II) EXPEN

Province.	Average of 1859 70 to 1873-71	Average of 1671-75 to 1676-79	Average of 1679-80 to 1883-81	Average of 1854-65 to 1658-69	Average of 1889 95 to 1593-91	Average of 1891-95 to 1893-99	1899-1900	1900-01.	1901-03	1902-03	1903-01	1941-05
	_	Rs	Rs	Ra	Rs	Re	Rs	Rs	, Be		_	
	Rs	67,102	50,151	67,183	1	82,616	96,550	63,578	Rs 79,539	Rs 85,017	En	Re
Imperial* .	63,685	2,12,021	3,55,117	3,91,317	4,01,147	5,38,653	5,45,210	5,70,806	6,57,131	6,05,011	£0,315	E3,050
Bengalt	1,11,083	8,37,700	8,38,658	9,17,898		9,15,078	9,12,380	9,63,130	10,08,739	1	7,03,05	6.83,589
United Provinces •	9,63,005 8,29,326	5,57,115	5,41,212	6,14,872	1	7,50,221	12,11,160	8,87,813	9,38,335	9,60,005	10,61,1'5	13,91,583
Punjab .		8,12,279	10,12,512	13,22,121	1	21,20,612	21, 17, 110	26,51,717	26,46,457			10,12,351
Burma	1,02,547	1	***	10,22,232	10,12,030				20,20,411	28,90,263	3.1,52,104	34,40,024
Bihar and Orises	••	 85,293	1,62,160	2,11,655	1	2,66,670	3,57,110	3,47,972	3,29,112	3,27,498	4 05 454	
Assamt .	3 99,072	4,33,731	6,13,539	7,37,805		11,78,660	12,75,620	11,65,866	12,00,904	12 57,288	4,25,164	5,03,656
Control Provinces and Borar.	0 00,012	2,00,102	0,20,037	1,51,55	20,20,000	12,10,000	12,10,020	22,00,000	12,00,004	12 01,000	12,50,036	13 20,615
Coorg	40,681	36,591	62,248	73 997	77,016	83,146	71,220	70,905	82,333	89,137	92,111	80 S20
North-West Frontier	,		••	•••		{		•••	19,510	51,086	60,603	71,955
Province	6,197	18,692	13,197	17,620	11,061	16,723	15,350	16,782	15.927	16,377	16,680	140.5
Ajmer	0,101		12,591	16,130	ł	33,508	28,650	29,251	21,180	23,240	21 677	15,641
Balachieten	739	451	5,120	11,108		1,65,125	1,40,910	1,40,187	2,04,667	2,81,702	2,66,121	21,674
		*,,		23,710	1	65,120	70,510	71,238	76,290	66,338	1	3,42,431
Porest College and Research Institute	••	}	***			1	,,,,,,,,	,,,,,,,,,,	10,209	44,300	5º,030	61,421
Forest Surveys (Imperial).	11,911	63,288	40,417	21,177	21,191	31,936	31,950	33,991	33,730	33,985	37,975	23,220
Vadras	4,55,871	5,76,976	6,29 660	10,67,521	12,85,113	15,06,756	16,53,500	17,15,131	17,09,571	18,35,552	17,59,93)	19,86 098
Bombay	6,18,046	8,70,157	12,51,202	18 11,812	19,09,759	10,81,552	21,25,139	24,08,581	17,19 630	16,76,411	17,75 917	19,03 EU1
GRAND TOTAL .	39,33, 130	15,76,804	56,00,579	71,26,95	F6,00,052	97,95,119	1,10,21,650	 1,11,60,010	1,07,16,355	1,12,10,831	1,21,66977	1,29,67,650
Provinco.		1917-18.	1918	-19	1919-20	1921-2	1. 19)21-23	1922-23	1913	21 1	924-25
***************************************	j.	Re	 	Rs.	Ra	Re	_	Ra	I's	R-		Rr
Imperial.		90,323	1 11	0,635	1,52,777	1,05,0	03 5	57.011	4,73,494	1,41,	409	1,68,595
Bengal	•]	7,38 712	1	5,835	9,72, 07	13,36,7	1	83.122	12,31,240	1	• •	4,17,471
United Provinces .		03,04,929	1	3 963 1	61,55,175	70,13 5	- 1	03,120	61 55,456		1	36,64,005
Punjab		11.58.019	1	5,801	23,16,120	05,75,7	i	76,076	49,06,671	1	1	6,11458
Burma		51,87,179		1,982	65,08 200	73,07,0	1	.83,091	99,72,149	fa	1 1	(4) 6,28,313
Bihar and Origen	-	3,90 716	1	0,619	5,06 800	5,89,1	i	,94,665	7,17,531	i	1	7,50,397
Aserm		6,86,627	1	0 001	8,21,717	9,66 C)	91,511	17.74.031	1	į	3,70,853
Central Provinces and B	lerar .	16,72,121	1	5,513	23,76,230	27,33,6	- ∤	,15,621	80,71,417	1	1	1,71,863
Coorg		1,00,911	1	5,572	5,07,147	1,76,7	- 1	,30,017	5,86,067	ì	1	3,58,751
Korth-West Frontier Pr	. SOULAGE	1,53,675	1	7,357	3 01,153	4,54,1	1	,19,351	6,12,383	1 55,	ı	5, 18,713
_Ajmer		26,501	J	3,513	17,252	37,4	, ,	11 320	29,619	49,	ſ	49,125
Baluchistan		29,200	1	3,787	25,314	2×,70	i	51,275	36,168	31,	- 1	30,178
Andamens	. ,	3,97,721	j	2,526	9,71,191	13,27,93)	87,027	8,05,181	5,90,5		1,57,600
Forest College and I	Roznaroh i	2,59,694	1.	2,015	3,16 593	1,57,19	- 1 '	32,621	7,39,586	7,75,0	ſ	8,26,365
Institute. Porcet Surveys (Imperia	i (i	56,597	1	ATIQ -	50,913	90,1	1 7	,07,113	1,19,935	25,1	,	. 1
Madana .]	30,20,849		2,520	26,03,345	15 00 19	. [15,856	17,89,163	16,33,8	26 5	0,72,459
Bombay		33,53 714	1278,7	2 177	59,15,682	53 05,01	2 50,	27,916	10,11,311	14 01,0	21 12	3,82,317
				_								1
		÷, '	1. 6. 1			,			-		i	
GRAND TOT	FAL .	2,31,57,065			17,63,109	3,64,10,90			3,93,12 041 '<.	3,55,15,3		2,67,683
			•	4	laciades per	of Insues	·	A F 73 4		7		

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Lecludes per of Inspecior-tenuerl of Pore-is, Assistant Inspector-General of Forests of Includes figures up to 1916-11 for districts subsequently transferred to Bihar and the lanes figures up to 1916-11 for Eastern Bengal districts subsequently transferred (a) Includes Federated Shan States

MENT XIX-contd.

from 1899-1900 to 1933-34 and the average of 6 quinquennial periods from 1869-70 to 1898-99. DITURE.

1905-06	1906 07	1907-08.	1905-09	1909-10	1910 11	1911-12	1912-13.	1013-11	191115	1915-16	1916-17	Province.
$\mathbf{R}_{\mathbf{S}}$	Ra]ła	Rø.	Rs	Re	Rq	Ra	· Rq	Ra	Rs	Rs	
83,767	95,473	1 00,201	1,01,183	1,04,332	92,606	91,711	1,04,162	97,296	99,478		1,03,248	Imperial *
5,93,509	6,33,386	7,13,391	5,83,991	5,91,099	6,43,285	7,06,374	6,60,791	6,40,157	6,70,93		6,19,649	Bongal †
14,05,182	13,06,6,1	11,91,013	11-1	12 09,308	12,37,938	13,63,673	16,27,261	18 93 011	23,17,710		27,35,915	United Provinces
12,65,661	11,41,193	11,76,696	1	6,67,752	7,49 512	7,65,116	7,99,176	9 19,177	8,89,303		9,31652	
39,35,063	36,59,743	35,51,532	1	36,83,618	18,42,790	11,01,163	11,38 581	42,71 301	46,80,147			Burma
		***		00,00,010	-0,12,100	3,00,916	3,75,691	3,55,618	3,61,371	1	4,17,072	Bihar and Oriesa
5,93,910	7,07,800	6,00,373	8,91,319	10,12,511	10,87,310	8,41,013	8,08,911	9,10,210	,-		6,76,033	Assem 1
18,07,153	13,12,893	15,63,197	1	15,86,8,2	15,89,533				8,98,330	[17,68,775	Central Provinces and
		10,00,10	11,00,007	10,00,002	10,00,033	18,38,379	10, 16, 735	19,53,129	19,36,569	17,31,336	17,00,770	Berar.
95,718	1,02,855	1,01,819	97,505	1,07,823	1,07 679	1,23,171	1,61,511	1,78,514	1,75,639	1,76,633	1,60,193	Coorg
95,258	93,650	6 S, 100	81,113	77,391	72,192	89,136	1,23,178	1,31,023	1,25,539	1,01,795	1,18,070	North-West Frontier Province
17,131	16,715	18,169	19,916	19,272	19,918	23 343	20,714	23,5%	21,733	25,152	26,631	Ajmer.
25,719	26,322	81,258	00,550	26,519	20,787	28,917	25 327	25,010	26,000	27,915	26,929	Baluclustan.
3,35,985	2,95,186	2,20,267	1,80,911	1,91,159	2,26,963	2,61,732	2,55,111	2,71,676	2,58,056	4,30,832	1,28,652	Andamans.
80,669	1,37,456	1,59,038	1,63,191	1,96,171	2,19,183	2,63,411	2,68,415	2,93,338	8,81,001	2,78 516	3,05,198	Forest College and Rosearch Instituto
80,011	30,339	27,060	39,128	41,062	11,110	88,798	85,809	37,713	42,353	48,663	47, 107	Forest Surveys (Imperul).
22,26,602	2189,660	27,80,857	20,17,261	33,39,635	32 25 801	34,14,862	31,50,482	29 35,817	 28,60,657	20,27,318	28, 12,678	Madras.
21,26,023	19,70,183	19 55,127	20,13,673	20 C3 OSE	20 TV, 117	56'et 1Je	20,01,475	25,67,677	24 67,023	26,12,038	27,64,651	Bombay.
.,12,20,521	1,10,62,519	1 45,12,93	3 1,47,26,031	1, 19,20,654	1,52,41,023	1,69, 16,566	1 73,07,810	1,75 4 1, 151	1,82,06,15	0 1,85,92,607	1,67 13,663	GRAND TOTAL
			1027.03	7010		929-30	1980-31.	1031		1932-33	16:3 31	Province
1025-20	10	26-27	1027-28	1025		921-30	1901-01.			1002-00		22017160
Rs.	1	124	Тìя	Rs		RR	Rs.	R	ū	Rs.	Rh	
1,18,9	1)1 1,	21,659	61,661	59,	361	61,108	(6) 1,03,25	2 5	5,082	45 010	49,667	Importal *
12,60,8	1.5 17	31,761	17,02,453	16,82,	191	16,65,180	15,05,13	n 16,6	1,011	15,08,613	14,42,183	Bengul.
36,95,3	140 E3	73 100	37,93,303	32, 13,	716	37,58,710	32,78,02	3 20,4	1,161	26,03,079	26,51,550	United Provinces.
27,01.		03 356	29,51,571	21,93,		29,67,107	28,01,40 (a)	1 21,0	1, 103	22,09,110	21,37,910	Punjab.
(a) 80,57.9	13 60	198 (1)	(a) 88,37,455	81,21,	771	(a) 78,05,585	75,61,23		2,310	05,01,3°5	65,27, 163	Burma
6,65,6	324 10,	63,060	6,63,371	8,50	373	9,02 662	7,31 60	5 7,6	3 257	6,31,793	6,6 ₀ ,071	Bihar and Orissa.
15,37,9	2-9 14	17,500	14 45,767	21,22,	386,	22,20,302	21,16,58	១ 16,1	1,203	14,10,217	11 97,019	Алапт .
33,15,7	r <u>.</u> 9 36,	,12,091	31,99,163	36, 19,	259	80,75,659	89,60,61	7 31,5	3,161	33,72 297	33,43,899	Central Provinces and Bergi.
3,05,8	005 2	81 770	2,59 186	2,65	133	8,11,351	2,97,35	0 2,2	5,515	1,99,098	2,05,071	Coorg .
5,17,0	121 6,	40,719	6,91,411	8,33,	,035	6,40,215	6,13,70	s 7.5	2,893 E08,U	6,15,702	3,98,670	North-West Frontier Province,
	161	79,718	62,631	76,	,955	81,200	23,82	1 8	7.081	75,153	62,432	Ajmor.
55,1)	33,422	84,019	36,	878	37,651	11,72	5 ,8	3,096	32,859	81.918	Baluchistan.
55,1 01,8		20,007	11,50,631	13,28,	,027	16,47,451	- 17,27,01	1	1,667	10,10,763	10,96,756	AndamabaA
	ng 12	,~-,				9,31,831	0,69,10	7,8	13,171	6,02,578	6,00,915	Forest College and Research Institute.
១1,ព		,96,565	108,80,0	9,41	,787	,,01,001	, -,,	1	_¥_		•	Research Institute.
91,3 11,35,0		1	 9,35,261	0,41	,787				1			i .
91,3 21,35,0 8,14,0)33 8	,96,565		1 .		45,18,627	,		1	, ,	P9,29,310	Research Institute, Forest Surveya (I.s., pounl). Madran.
81,3 21,35,0 8,14,0	237 50	,96,565	\$ **	.:.	,503	•	•••	i 39's		, ,	1	Ported Surveys (Type ported).

Office Detablishment, and undistributable and petty local stems and covernes and charges on Indone and Brigatore. Evoludes Home charges.

Origon
to Bongal

STATE Surplus of the Forest Department throughout India for the 35 financial years (III) SUR

					1	7					_	
Province	Average of 1860 70 to 1873-71	Average of 1874-75 to 1878-79	Average of 1579-80 to 1853-81	Average of 1684-85 to 1585-89	Average of 1885-90 to 1873-94	Average of 1891-95 to 1892-29	1829- 1900	1930-01	1901-02	1902-03	1903-01	1991 (45
	Rs	Rs	Rs	Re	Ra	Rs	Rs	RB	Re	Rr	Rs	Es
T	-GI,510	05,9Sŏ	55,025	—76,269	—78,978	—73,12 8	—On, 160	-81,115	—76,955	S1,35S	61,690	79,290
Importal*	50,181	77,715	2,51,131	2,37,037	3,62 281	5,10,712	5,03,700	6,62,533	6,35,106	6,16,203	3,62,015	1,76,553
United Provinces	2,93,971	3,81,941	2,93,937	5,15,627	7,12,767	5,96,746	6 73,360	6,02 021	7,06,760	10,11,326	11,00 005	10 05,755
Prmib	1,11,903	1,19,110	1,96,096	2 67,578	2,54,013	3,89,250	1,89,310	1,63,199	5 00,223	6,26 113	5,61,352	8,42,053
Burma	4,91,151	6,16,896	9,75,811	11,78,59	33,06,271	41,01,900	53,61,C10	53,99,727	32,27,181	35,48,790	19,16,101	55,12,832
Bihar and Origan		1	!	1	1	1	}			}		}
Assart		12,805	29, 127	20,100	1,71 591	1,29,043	2,10,960	2,01,519	1,83,851	2,52,701	2,50,218	3,12,021
Central Provinces and Borrr	3,12,807	5,16,_02	6,68,153	6,73,358	6,78 848	1,97,298	21,670	99,718	3,78,212	1,27,110	7,17,066	6,92,814
Coorg	52,807	42,296	40,923	09,117	76,120	51,310	89,190	66,691	87,909	1,01,293	1,31,510	1,09,237
North-West Frontier Province-									6,198	47,038	11,200	16,033
Apres	6,132	-17,510	-9,722	5,761	(2,560	5,080	6,136	1	6,611	2,796	1,056
Baluchistan .	_		-1,035	5,157	1	-16,178	-11,620	12,298]	-3,901	3 031	-2,117
• Prinarbit	4,728	1,001	29,711	16,525	.,	69,010	1,19,660	1,37,719	62 236	11,333	1,61,260	2,78,065
Forest College and Research Institute			"	28,319	11 367	-62,080	—70,3±0	~ 67,511	—73,735 -	-63,086	56,801	-57,867
Porcel Surveys (Imperial,	11,911	63,271	10,305	24,271		31,636	-33,560	33,661		30,931	-33,511	-28,229
Maring	1,46,100	11,413	1,85,760	2,32,960		6,01,232	6,18,760	6,21,731	1	7,78,207	9,06,797	8,43,118
Boutury	5,29,627	3,58,071	6,12,526	11,69 5°E	14,15,101	10,64,662	2,86,770	5,52,949	6,60,010	6,52,715	2,75,602	11,16,951
Grath Total .	16,00,631	20,63,593	32,07,631	42 11,1 93	78, 15,002	79,19,616	77,81,030	86,10,150	70,77,837	62,92,900	1,02,19,754	1,10,62,024
Province.		1917-18	191	S-19	1919-20	1920-21	. 1	021-23	1922-23	1923-	es :	1931-25
		Rs	- 1	Rs.	Вя	Rs	Ì	Rs.	Пı	R	1	Rs.
Ione-ri l*	• •	35,61	ľ	3 150	 1 08,_70	-1,41 8	571 -	-2,29,209	-4 06 911	-1,11	1	-1,08,495
Ben'at	• •	6,38,23	1	8,269	10,76,430	8 18,0		6,10,837	19,79 977	-	1	10 58,058
tr.fed F.o mees .	• •	27 11,76	- 1	8 2.3	13,16,179	17,36,.	}	12,41,959	22,11,317	1	·	32,77,932
មួយប្រើក្នុង	• •	9,59,72	1 .	54,871	11,29,759	2,10,0	- 1	6,15,102		1 6	r) l	11,12,823 (a) 00,39,511
Print .	• •	CS,71 32	l '	6 870	25 97,062	J,16,68,0		0,03 693	89,71,503	1	ŀ	2,70,871
Bihar, and Orissa	•	3,62,90	j	3,914	3,10,033	2,21,1		91,292	1,61 373	2,78		2,70,671 11,47,903
Ocht, al Provinces and	Itoran	6,23,32	1 .	11,757	0,59,870	5,65,3	(3,05,516	5,97,219 16,72 563	8,11 20,63		20,60,769
Corr	A.G.A.R.F.	15,91,20 2,53,73	- 1	2 871	21,70,193	16,00 9	1	1 02 020	3,56,616	1	` (8,00,270
North-West Prostier	Province	1,83,83	1	2,001	1,10 191 1,61,035	—39 1 —9 34 4)	1,03 036	1 15,276		,765	81,0~1
Ajror		1,03,83	1	3,965 8,772	1,61,055 12,368	2,31 4 10,6	- (-1,74 531 508	1 15,270	1	,908	10,937
Paluchist m		72 66	i	3,679	12,103 7,377	6,5	ı	-36 016	21,529	1	,007	2,885
Andam na		3,05 00	J	1 557	-1,70,6°3	7,07,°	1	-7,86 929	-2,17,157	-2,81	- 1	-4,29,093
Forest College -and	Remarch	2 61 37	- 1	8,905	- 3,10,1 ⁵ § .	-4,14 8	1	7,08 707	-5 51 S23	6,6%	- 1	-7,23,766
Port t Sur era Turper	nay.	و بالدسية و الم	1.	9,110	-56.95.5	-20	. 1	1,07 113	1,19 935		าเร	
Andria .		. 'FI 121	- 1	F 910 t	55, 45 , 501	8,50,	1	2, 16 185	1,83 203	_ i	,731	1 67,223
Brilly	- 450 m	2		1,854	a Ca	15,03		11,69 617	31,23,010 ¹	27,15	550	29,25,617
Grand In	n.	1,0315.		72	2.17.14.510	-1,77,_3,3	68 1,7	1,61,10	1.25 07'031 1-2	201,71	,c3" £,	14,76,799
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Includes pay of Inspector-Goucral of Porests Assessment In spector Goussal of Porests.

+ Includes figures up to 1910-11 for districts onlice Italy transferred to Biller and
the Inches houses up to 1910-11 for listern Bensal districts and so purelly transferred
for lisely be Poderated Shan States.

(b) Includes Rs. 1,25,387 on account of Chengiu Timber Operations.

MENT XIX-concld.

from 1899-1900 to 1933-34 and the average of 6 quinquennial periods from 1869-70 to 1898-99. PLUS.

	,		,						,			
1905 06.	1906 07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-11	1914-15	1015-16	1916-17	Province
Rs	Rq	Re	Rq	Ru	Ra	Rq	Rs.	Re	Re	Rs	Rs	
-76,512	—95,172	92,508	-95,991	93,700	63,911	81,031	-91,825	67,625	-87,431	-86,015	—78,702	Impount #
5,25,033	1,32,173	1,61,256	6 00,861	4,89,541	5,21,150	4,16,068	19,39,607	9,75,954	6,33,561	5,51,975	7,19,130	Bengal †
10,28,246	11,94,013	12,15,732	1 1	10,91,586	11,40,501	16,52,487	19,14,699	J8.16.173	8,17,195	11,72,521	23,05,017	United Provinces
5,17,959	1,00,591	2,80,753	1,37,105	0,61,851	1,77, 116	5,11,931	1,39,857	1,35,766	5, 18, 703	8,03,105	7,53,131	Punjab
63,91,606	61,52,766	51,12,157	1 1	56,74,459	63,27,316	58,76,132	67,63,809	71,50,529	50,27,217	48,12,976		Burma
						1,06,297	63,061	1,36,087	1,65,108	1,50,177	81,109	Bihar and Oriest.
5,12,186	6,12,732	6,30,071	5,55,019	5,22,191	8,03,205	3,05,307	3,33,180	1,87,729	-65,462	2,99,888	4,72,588	Авчата ‡
11,41,978	10,58,281	7,06,721	3,21,855	4,91,158	5,21,693	7,11,175	12,25,080	12,00,321	13,35,960	15,13,026	16,02,803	Central Provinces
1,49,671	1,93,051	1,60,937	1,21,705	1,05,307	1,63,076	1,73,996	1,20,108	1,50,713	23,401	2,72,521	3,26,823	Coorg
33,271	89,561	1,50,070	41,369	95,911	1,32,850	68,735	1,15,010	1,35,718	1,12,120	82,020	1,22,915	North-West Frontier Province
2,129	1,620	11,676	7,699	4,718	13,929	1,018	6,882	10,302	9,437	1,707	5 362	Ajmer
-4,262	-5,127	6,129	13,251	7,820	-2,175	-8,830	~8,365	-5,323	-6,912	-6,362	8,652	Balnohistan.
2, 16,526	3,11,891	62,555	21,077	65,818	1,89,810	2,60,425	1,91,781	1,71,135	81,193	3,932	2,21,059	Andamans
—77,5 89	-1,32,907	1,51,901	-1,78,511	1,91,265	2,15,103	-2,57,891	2,60,831	2,92,532	3,23,471	-2,71,523	—2,97,29 n	Forest College and Research Institute
-30,011	—30,350	—27,06 0	39,129	-41,063	-41,110	-33,799	-35,892	37,733	-42,853	-1S,663	—47,407	Forest Surveys (Imperial).
7,01,002	8,10,000	11,12,973	9,73,658	6,28.716	6,51,610	7,51,030	0 61,001	12,61,503	10,50,852	11,79,520	17,53,416	Madras.
10,53,900	14,32,298	16,90,750	15, 11, 153	16,91,568	16,47,807	16,66,138	23,00,064	25,13,279	21,03,317	20,50,925	29,51,196	Bombay
1,21,16,072	1,21,27,687	1,13,50,01	31,07,80,765	1,11,05,140	1,21,61, (2)	1,21,10,79	1,50,01,999	1,57,59,09	 1,15,03,33	1 1,25,±3,760	1,63,18,017	GEARD TOTAL
1925-26.	. 10.	26-27.	1927-29.	1928-	29, 1	920-30	1930-31	1931	-33.	1932-33	1933 34	Province.
Rs.		Re	Ra.	Ra	1	Re.	Re	R	g.	R_{F}	Re	
-1,18,9	1031	,23,859	G1,661	59	0,361	-61 409	1,03,2	52 -	50,052	-45,019	15,667	Imperiul .
15,95,1	152 13	,69,080	16,17,027	14,30	6,165	13,86,898	7 16,9	20	33,435	3,101	60,378	Rengal
27,30,0	135 21	,07.801	32,07,680	20,3	n,675	27,90,928	16,97,4	95 18,	81,759	19,91,605	18,62,731	United Provinces ,
11,10,5		,04,315	2,86,113		1 706	1,83,574	-1,16,5	GG 1,	L9,607	-2,57,140	-1,54,761	Punjab
1,36,58,	1,30	,53,170	1,35,69,810	20,7	a) 5,372 1	,25,57,500	81,07,8	12 17,	12,709	23,78, 17 1	27,12,000	Bulma
3,62,9	pgs	,39,317	2,75,386	2,1	C,788	36,613	70,7	12 -1,	35,241	-12,910	16,752	Bihar and Orisea,
11,71,1	157 10	,85,967	21,67,693	16,5	5,507	12,09,706	1,46,4	.58 3,	15,670	2,06,158	2,60,179	75eam
16,41,0	560 10	,72,695	15,78,692	17,9	7,057	20,21,855	11,51,0	9,	93,917	10,17,871	10,62,612	Central Provinces and Berne.
2,33,1	123 1	1,73,375	2,43,166	2,0	30,503	2.60,577	, 11,7	23 2,	57,306	1,98,225	2,26,270	Coorg
1,96,6	286	,50,117	65,296	-	5,558	21,159	, 0,8	- 60	22,613	1,20,916	1	North-West Proutier
17,5	593 -	-12,791	6,331	1	1,863	12,603	11,4	ì	27	15,072	·	Ajmor.
−7, 3	737	-1,480	1,152	-1	3,453	8,651	12,	1	-6,710	-6,751	1	Balachistan
-2,11,0	031 -	-49,231	32,62 2	[1,770	8,59,359	2,19,		19,796	* 3,11,640	11-	Andamone.
7,08,	336	5,22,511	-6.10,197	-8,3	5,736	_B,27,009	-6,78,8	(C)-157.	n 1,082	-8,17,61E	,,6,43 Fu0	Porest College and Research Institute.
	1	.	7. ***	1 '	, J.	* 444 * 54. ** 45.**	1		4		提供更少 提供更多	Torest Surveys (Imperial.
3,17	1	5,60,850	5,71,837		5 270	ger,vi,nt	- 5	No. of	() . 12 de	्रा गुरुष्या । इस्ट्रेडिक	1	Madian.
93,20	,112 32	1,00,00,	29,82,313.	28,5	0,590	RF,90 G8G		477			100	Bombay,
2,59,07	2,623	3,59,115	2 50,21,452	2,37,4	7,874 2	. 10,56,818	1,01,70	en a or	17.0	en i e ann	71,07,659	GUATO TOTAL.
1									<u>_</u>	يست سسم	<u> </u>	

Office Establishment, and undistributable and porty local stoms and revenues and charges on Indere and Bangalore. Excludes There observes, to Bengal.

STATEMENT No. XX.

Forest Area by ownership (in square miles).

		T	HE STATE		-		Privito		77-	
Province.	Typo of Forcets	Dedicated to timber produc- tion	Other forest	Total	Bo	porate pdies	Aigneje ingi-	Total	HE:	u abee.
1	2	3	4	5	_ _	6	7	- 8	-	9
)26		1,65	4 8,6	30	
Bengal .	Merchantable	6,995	1	1	166			3,4	cc \	
	Unprofitable or maccossible	3,19	70	1,	191	21	1	1	1	
United Provinces .	Morehantable Unprofitable or maccesmble		10,08	4 10,	180,		1,8	76 11,	060	
		. 87	18	ì	,055	139	1		197 803	
Punjab • . •	Merchantable Unprofitable or maccessible	1,10	2,9	17 4	,133	G6	"		1	
231.3	Merchantable .	21,9	1	1	1,907			40	907 164	
Borma	Unprofitable or maccossible	. 6,9	1		3,461	•		١.	,217	
Federated Shan States	Merchantable	2,4	133 5,1 715 59,		8,217 61,330				,830	
	Unprofitable or maccessible .	1		118	3,020	۱	14	,118 1	7,138	
Biliar and Orises	. Morchantable		1	679	679			.	679	
	Unprontable of Indeedstrate	. 3	252		8,252		52		3,651	
Assum .	. Merchantable	· 1	,sro 15	,,,,,	18,515		· '	Ì	8,515	
	. Morchantable	12	" 1 (() () () ()	20,397	1	. '	,	36,605 11,912	
Central Provinces	Unprofitable or maccosquble .		1 4	2,686	2,086	'\ '		-	762	
Coorg	. Norchantable		372	191	568 262	1	.	19	408	
00025	Unprofitable or maccessible	•	123	139		1		35	215	
	ntior Merchantable .	• •	180	175	180	1		89	273	
Province	Unprofitable or maccessible .				16	io	\	}	100	
Aymer	Merchantable .		100	.		15		.	42	
	Unprofitable or maccessible	•		. \			.			
Baluchietan .	Merchantable	:		788	7	88		ļ	788	
	Morchantable .		2,0-5		2,0	l			2,055 134	
• епатабиА	Unprofitable or maccossible		131		,	131			16,543	
Madies •	Mexahantablo		4,171	6,890	16.3	,061	\	5,492 14,389	22,315	
	Unprofitable or inaccessible.		2,833	5,388	1	926		165	8,910	
Bombry .	. Merchantable		7,612	1,103 5,110	1411	5,410		.,	5,410	,
	Unprofitable or macrossible .	.	.							
Total 4_	Morch-ntable	:\	66,700	78,000	ı	1,793	205	39,378 25,735	1,84,382 1,80,531	
 	Therefice or monogerible.	· · · · · · · · · · · · · · · · · · ·	13,931	1,00,7	1,5	1,129	C67	20,700		}
		٠. ا		'. ,—					3,61,913	1
	SPAND TO	YTAL .	, 81,093	2,17,93	5 2,8	18,028	872	65,113	3,01,010	-
			· ;					100	<u>.</u>	
	Percentage of terri Percentage	· · · · · · · · · · · · · · · · · · ·	22.2	50	7	81 9	0 2	1.	<u> </u>	

APPENDIX 1.

STATISTICAL DIAGRAMS RELATING TO FOREST ADMINISTRATION IN BRITISH INDIA.

Area under the control of the Forest Department compared with total area of British India (including the Shan States).

Area not under
Forest Deparlment

816,839 59. miles.

= 74.3 percent.

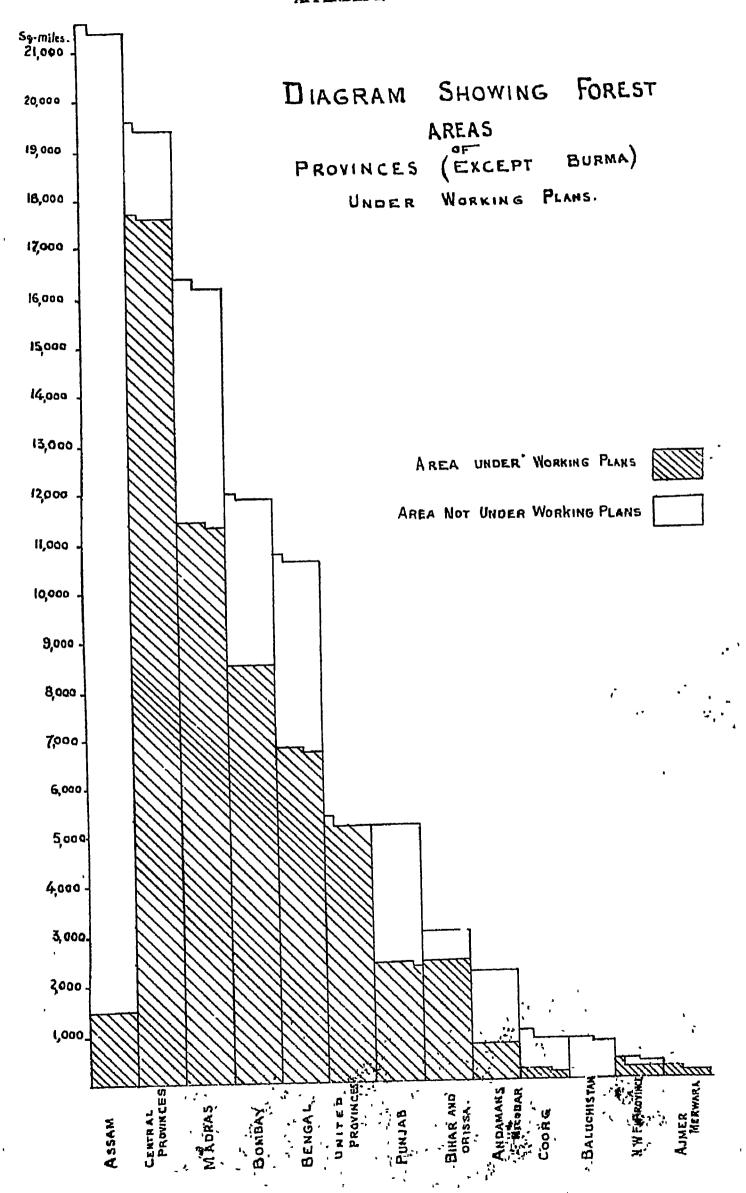
Department

282,664 Sq: miles

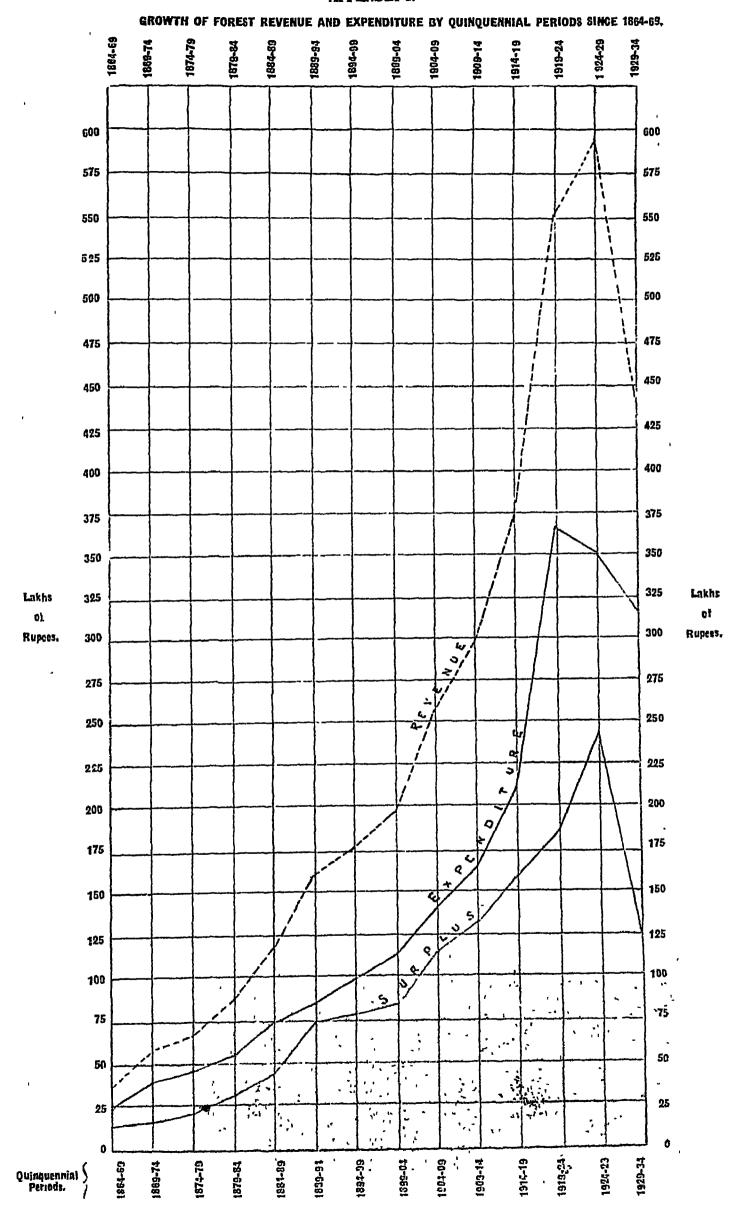
25.7 percent.

Total area -1,099,503 Sq. miles,

- A. Reserved Forests 106,079 Sq. miles.
- B. Protected " 7,003 " "
- C. Unclassed ,, 169,582 ,, ,,



APPENDIX 3.



APPENDIX 4.

DIAGRAM SHOWING ANNUAL FOREST REVENUE, EXPENDITURE & SURPLUS

for the 10 years 1924-25 to 1933-34.

